

Assessment Date (Form Date): 4-16-13 (circle one) Libby, MT  
Troy, MT

**Note:** This PCC addresses contamination left in place for areas specified by the associated removal work plan completed within the date range listed on this PCC. This PCC does not address potential contamination remaining in NUAs, or in other areas not inspected during the GPI, unless the removal work plan was modified to remove NUAs or portions thereof.

**Instructions:** Attach draft Redline drawing indicating all areas inspected and sampled during response activities and any contaminated soil remaining. Indicate location of any marker barrier placed at excavation limits. List all geounits, addresses and property ids or attach reference table. For removals with multiple addresses having Indoor responses, complete additional PCCs for each additional address with an Indoor response. Complete a separate PCC for excavation encroachment beyond 10 feet. Provide completed forms and supporting documentation to QC Reviewer.

**For exterior soil response, list main address tied to samples first, followed by additional addresses as applicable.**

Geounit ID: <u>5730</u>	Property ID (AD#): <u>AD-000686</u>	Address: <u>875 US Highway 2</u>
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Surveyor(s)/Company: M. Farnham (CDM SMITH) Removal Contractor: PRI-ER

Type of response (check one):  
☒ Planned removal  
☐ Partial planned removal: interior completed, exterior to be completed later  
☐ Partial planned removal: exterior completed, interior to be completed later  
☐ Partial planned removal: further investigation needed  
☐ Partial planned removal: primary trigger remains

Type of response activity (circle all that apply):  
Indoor/Buildings Outdoor (includes soil from non-enclosed buildings)  
 Attic insulation Interior cleaning  
 Interior demolition Interior soil  
 Building demolition Vermiculite-containing building material (VCBM)

Interior removal start date: <u>7</u>	Exterior removal start date: <u>4-17-13</u>
Interior removal finish date: <u>7</u>	Exterior removal finish date: <u>4-22-13</u>
Interior restoration start date: <u>7</u>	Exterior restoration start date: <u>4-29-13</u>
Interior restoration finish date: <u>7</u>	Exterior restoration finish date: <u>4-30-13</u>

#### Indoor

Is vermiculite insulation known to remain in any indoor areas, excluding crawlspaces (circle one)? Y N NA  
 Describe known location(s) with remaining vermiculite insulation. Also note location of remaining VCBM. \_\_\_\_\_

#### Soil

##### Areas Inspected and Not Excavated

Does soil containing LA remain at ground surface (circle one)? Not Sampled (Y) N NA  
 If indoor, briefly describe location: See GPI map If outdoor, mark sampled area(s) on map.

Does soil containing visible vermiculite remain at ground surface (circle one)? (Y) N NA  
 If indoor, briefly describe location: See GPI map If outdoor, mark inspection points (e.g., "L", "M") on map.

##### Areas Excavated and Confirmation Sampled

Were confirmation samples collected from all removal areas at final excavation depth? (Y) N NA  
 If no, mark unsampled areas on map.  
 Does soil containing LA remain at excavation depth (circle one)? (Y) N NA  
 If indoor, briefly describe location: \_\_\_\_\_ If outdoor, mark sampled area(s) on map.  
 Does soil containing visible vermiculite remain at excavation depth (circle one)? (Y) N NA  
 If indoor, briefly describe location: \_\_\_\_\_ If outdoor, mark inspection points (e.g., "L", "M") on map.

Comments: Vermiculite was observed on the mound north of area A (in GPI zone 34). USACE instructed not to expand area to include the mound.

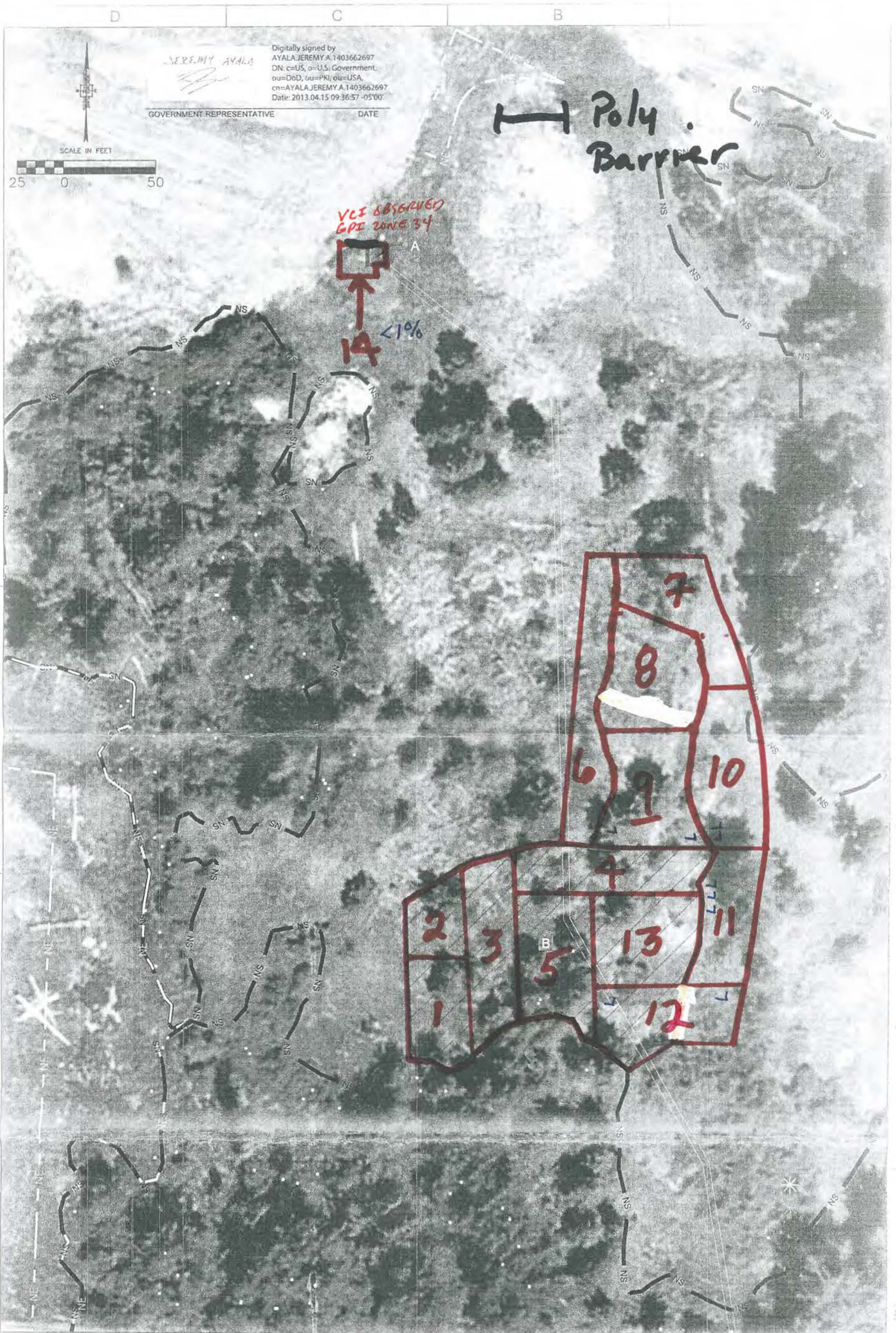
PCC QC Reviewer / Date: Matt Forkel 5/7/13 Data Entered by / Date: Paula Schauss 5/7/13  
Diane Rade 5/14/13





REDLINE

DRAFT

NOT TO SCALE





SHEET:  2  OF 2	 US EPA Region VIII Denver, Colorado   US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM	AD #: 000686	GEOUNIT #: 5730	GRZ #: 00	DRAWING BY/DATE	REVISION #	REVISION DATE	DESCRIPTION
		LINCOLN COUNTY PORT AUTHORITY  875 US HIGHWAY 2  EXCAVATION DESIGN			T. ROBERTSON 03/28/13	0	04/12/13	
					QC REVIEW BY/DATE	N/A	N/A	N/A
					K. MCKENZIE 04/03/13	N/A	N/A	N/A
					DRAWING FINALIZED BY/DATE	N/A	N/A	N/A
					T. ROBERTSON 04/12/13	YOUR STREET BY NAME\US HIGHWAY 25\A\US HIGHWAY 25\B\US HIGHWAY 2		



NOT TO SCALE



SHEET:  2   OF 2	<div> US EPA Region VIII Denver, Colorado</div> <div> US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM</div>	LIBBY ASBESTOS PROJECT LINCOLN COUNTY, MONTANA	AD #: 000686      GEUNIT #: 5730      GRZ #: 00	DRAWING BY/DATE T. ROBERTSON 03/28/13	REVISION #:	REVISION DATE:	DESCRIPTION:
		LINCOLN COUNTY PORT AUTHORITY  875 US HIGHWAY 2  RESTORATION DESIGN	QC REVIEW BY/DATE K. MCKENZIE 04/03/13	0	04/12/13		
			DRAWING FINALIZED BY/DATE T. ROBERTSON 04/12/13	N/A	N/A	N/A	
				N/A	N/A	N/A	
				N/A	N/A	N/A	
...\\OU4\STREET BY NAME\US HIGHWAY 2\875 US HIGHWAY 2\FISHING POND\CAD\--FINAL DESIGN--REV.0.DWG							





### Punch-List Tracking Sheet:

*This form is used to document restoration issues that arise during the removal and restoration that must be addressed prior to the final inspections. This form will be kept with the official Quality Control Site Plan.*

Start Date: \_\_\_\_\_ Complete Date: \_\_\_\_\_

Property ID: 000686

Property Address: 875 US Hwy 2 (Fishing Pond)

Items that Require Attention: (CQC and TQA will initial when the item has been addressed)	CQC (complete)	TQA (complete)

\_\_\_\_\_  
CQC Complete

\_\_\_\_\_  
TQA Complete





Property ID: 000686

### Property Status Tracking

Milestones:	Date:	Time:
<b>Set-up Date:</b>		
<b>Preliminary Excavation Inspection:</b>		
<b>Excavation Start:</b>		
<b>Final Excavation Inspection:</b>		
<b>Preliminary Restoration Inspection:</b>		
<b>Restoration Start Date:</b>		
<b>Final Inspection Date:</b>		

\_\_\_\_\_  
CQC Excavation (print)

\_\_\_\_\_  
CQC Excavation (signature)

\_\_\_\_\_  
CQC Restoration (print)

\_\_\_\_\_  
CQC Restoration (signature)

\_\_\_\_\_  
TQA (print)

\_\_\_\_\_  
TQA (signature)

### CQC Plans Chain-of-Custody

From: \_\_\_\_\_ To: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Signed: \_\_\_\_\_

From: \_\_\_\_\_ To: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Signed: \_\_\_\_\_

From: \_\_\_\_\_ To: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Signed: \_\_\_\_\_



General Information		
Date:	4-11-13	Property ID: AD-000686
Property Address:	875 US Hwy 2	
Site Specific Conditions		
(*If applicable, note features on the property's red-line sketch)		
Special containment requirements?*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Comments:
Problematic trees/shrubs that require special attention?*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Comments:
Anticipated electrical/plumbing issues that require a licensed professional?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Comments:
Areas that will require extensive demolition activities?*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Comments:
Are there any indications of pre-existing damage/conditions?*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Comments:
Are there current existing negative drainage issues on the property? (If yes, indicate areas and drainage directions on the drawing.)*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Comments:
Location of Water Source for Dust Suppression and Decontamination	Comments: J. Neri ls P	
Access*	Comments: None	
Hazards*	Comments: None	
Other Comments*	Comments: None	
Photo Documentation		
<input type="checkbox"/> Photos of Pre Removal Features	<input type="checkbox"/> Photos of Access Issues	<input type="checkbox"/> Photos of Pre-Existing Conditions
Exterior Red-Line Property Sketch		
Guidelines		
The following features are to be illustrated on the property's survey drawing by the Removal Contractor (RC) foreman or the Construction Quality Control Inspector at the time of the preparatory removal evaluation:		
Exclusion Zones	Comments:	
Equipment Staging Areas		
Placement of Containment Controls		
Pathways used for the transportation of materials		
Crew Parking Areas		

 **COPY**

*Jeremy Ayala* 4-11-13

RC Foreman Signature/Date

JEREMY AYALA  
*[Signature]*

USACE Reviewer Signature/Date

Digitally signed by  
AYALA.JEREMY.A.1403662697  
DN: c=US, o=U.S. Government, ou=DoD,  
ou=PKI, ou=USA,  
cn=AYALA.JEREMY.A.1403662697  
Date: 2013.04.12 13:21:49 -05'00'





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

 **COPY**

REGION 8  
1595 Wynkoop Street  
Denver, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

## Removal and Restoration Agreement

The purpose of this form is to provide a mutual agreement to document the conditions of the removal and restoration activities that will take place at your property prior to the commencement of the proposed response actions.

This agreement will also serve as documentation for the purpose of assuring that removal and restoration activities are carried out to the satisfaction of the property owner and the United States Environmental Protection Agency (EPA), as documented within this agreement, for removals performed in Libby and Troy, Montana, for the Libby Asbestos Superfund Site.

EPA Property ID: <i>AD-000686</i>
Property Address: <i>875 US Highway 2, Libby, MT 59923</i>
Property Owner: <i>Lincoln County Port Authority</i>
Tenant residing at the address (if different than owner):
Phone Number:
Community Involvement Coordinator (CIC): <i>Josh Erickson</i>



## General Policies for All Properties



All proposed residential and commercial removal and restoration activities will be conducted in accordance with the following General Policies:

1. Only government-authorized personnel will be permitted to perform work on site during the removal and restoration activities.
2. Removal start dates are subject to change based on crew and equipment availability that cause fluctuations within the construction schedule. Removal dates are not guaranteed, however we will try to accommodate scheduling requests.

*Acknowledgement (property owner's initials):* BB

3. If relocation is required and the resident returns to their property without prior approval, their relocation agreement with the government will be nullified and per diem and hotel costs will not be paid. Nullification of the relocation agreement under these conditions does not allow for re-occupancy of the property if removal and restoration activities are still ongoing.

*Acknowledgement (property owner's initials):* BB

4. Any cost incurred in addition to pre-approved lodging arrangements will be reimbursed directly to the hotel by the resident. In the event the resident is asked to leave the accommodations for non-compliance with hotel rules, EPA will not provide alternate lodging. The resident will be responsible for procuring their own lodging for the duration of the removal and restoration activities.
5. Construction and restoration will carry a one (1) year warranty after the remediation is complete. This warranty will exclude any pre-existing features of the property, activities conducted by the property owner, or activities conducted by contractors solicited by the property owner. Unless prior arrangements are made with the EPA, this warranty is extended to the original property owner and is non-transferrable should the property be sold.

*Acknowledgement (property owner's initials):* BB

6. EPA representatives need to be notified of any future interior remodeling or exterior landscaping changes at the property.

       *Yes, I have future interior remodeling plans.*

BB *Yes, I have future exterior landscaping plans.*

7. If the property owner chooses to relocate, change, or make improvements within areas affected by the remediation activities and those changes are not previously documented in this agreement, any change or damage that arise within those areas will become the liability and responsibility of the property's owner.
8. EPA may choose to leave contaminated materials in place if they are located in inaccessible areas or in areas not likely to be disturbed.



## Exterior Removal Policies

 **COPY**

1. The attached diagram(s) indicate areas that will be excavated along with depths of excavation, location of all known utilities, subsurface structures and landscaping features, and access location(s) to be used by the contractor.
2. Excavation boundaries are subject to change based on the presence of vermiculite. No excavation will occur beneath sidewalls of structures or concrete pads.
3. The landscaping contractor will restore plants and hydro seed after the backfilling is complete. It will then become the resident's responsibility to maintain these areas. The property owner is encouraged to refer to the hydro seed care instructions provided during the removal and restoration agreement meeting.

*Acknowledgement that the property owner received literature on the expectations and care taking of newly landscaped areas:* BB N/A

4. Plant materials removed from your property can be reinstalled by the government's contractor or landscape vouchers may be issued to a pre-approved vendor of your choice. Vouchers issued must be redeemed within one year of the issue date unless prior arrangements are made.

*Yes, I request a voucher for flowers/shrubs/trees removed from my property:* N/A

*Yes, I request a voucher for grass areas removed from my property:* 1

5. The property owner or resident can be compensated for the difference in costs associated with the first 30 days of watering restored areas at a property. The 30-day period will begin upon completion of hydro-seed installation at a property. The property owner or resident will be required to provide a water bill to their CIC from the same month of the previous year, and their water bill from the 30 day period for the difference to be calculated.

*Acknowledgement (property owner's initials):* N/A

6. If a sprinkler system exists at the property, the property owner will be required to provide proof that the system functions properly.

*Yes, I have a sprinkler system installed and it functions properly:* NA

*EPA representative verifying that the sprinkler system is working properly:* ✓

7. If excavation is necessary around a propane system, the system will be shut off or disconnected during the removal action. It is the responsibility of the property owner to ensure the system meets current building code prior to re-pressurization of the system.

*Acknowledgement (property owner's initials):* N/A

Additionally, if temporary movement of a propane or other type of system such as a heating oil tank is required to remediate the soils beneath, the owner might incur additional charges from their service provider for disconnection, pressure checks, and reconnection fees. These fees will be compensated to the property owner by the government in the form of a check.

*Property's propane or oil service provider is:* N/A

8. The property owner agrees that the EPA and its contractors will not be responsible for the death of a tree if death is caused by the bark beetle.

*Acknowledgement (property owner's initials):* BB



### Procedures for Soil Removal around Trees

1. All landscape such as trees and shrubs within designated removal zones that are less than 6" in diameter at breast height (DBH) will automatically be removed.
2. Trees within removal zones larger than 6" DBH will be left in place and "Procedures for Soil Removal around Trees" will be followed. The same procedures will be followed for edible fruit bearing trees greater than 4" DBH.
3. All compensation for removed trees will be provided in nursery stock.
4. Dead trees and stumps may be removed at the removal contractor's discretion, if they facilitate the removal action.
5. Excavations around trees will be at least 6" deep to provide for at least 6" of cover if contamination is left in place.
6. Trees that require removal will be marked with bright paint and will be cut down during site set-up, prior to excavation activities.
7. Excavation will begin with hand tools at the base of the tree and move outwards to locate the major roots. Major roots will be carefully exposed, taking precautions to avoid damaging the root mat. Roots that are severely damaged will be cut-off cleanly above the damaged area to minimize the amount of damaged surface area.
8. Once the major roots have been located and can be avoided, an excavator may be used for the removal of soils. Precautions will be taken to protect the tree trunk and branches from scrapes by the excavator and/or hand tools. This may include tying the trees back with straps to create access.
9. All roots will be backfilled as soon as possible using topsoil material. Backfilling will be up to the root collar. The Removal Contractor will keep topsoil on-site for this purpose when anticipating digging around trees.
10. Roots will be kept wet once they are exposed until backfilling is complete. If an area cannot be backfilled and the roots will remain uncovered overnight, the roots will be covered in soaked burlap until backfilling occurs. Backfilled areas around trees will be soaked multiple times a day during the removal. Any settling of the topsoil around the roots will be corrected by adding more topsoil.
11. In areas where observed vermiculite was the removal trigger, excavation will stop if vermiculite is not observed.
12. Vermiculite in the root mat beyond 6" will be documented, sampled, and left in place. Intrusive digging beyond 6" into the root system will not be performed.
13. If analytical results around tree roots indicate contamination of greater than 1% Libby Amphibole asbestos, the tree will be removed and the replacement of the tree will be with nursery stock.

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### Interior Removal Policies

1. Interior design-build plans will be created on-site by EPA contractors and will adhere to the current construction specifications established for the Libby Asbestos Superfund Site.



2. The EPA and its contractors will not be responsible for problems arising from pre-existing conditions. Pre-existing conditions may be encountered before and during the removal process. Examples of these conditions include bad wiring, poor ventilation, or the mold in areas where removal and restoration activities are proposed. The property owner will be made aware of these conditions as they are discovered they will be allowed reasonable time to address these issues before insulation is installed.
3. If an interior removal is performed, some doors and windows may be left open as part of the removal activities. On-site security will be provided whenever the removal contractor is not working if a property cannot be locked-up.
4. Areas where removal activities are anticipated will be sealed off and contained prior to performing removal activities.
5. The presence of vermiculite in an attic area will result in the removal of all insulation that shares airspace with the vermiculite. Following the removal of vermiculite containing insulation from an attic they will receive a detailed cleaning and application of an encapsulating finish to adhere any loose particles to the surface areas.
6. If insulation is removed, it will be replaced with insulation as required per current building codes.
7. Items that are stored in an attic and share airspace with the vermiculite will be properly decontaminated. Items that are removed from interior spaces will be staged in a secured location until they can be returned; prior to confirmation sampling.
8. Dust samples that indicate the presence of vermiculite within an enclosed area of will result in an interior cleaning of the space where the sample was collected. The presence of vermiculite leaking into an area of habitation will result in a spot cleaning of that area.
9. Gaps from areas of contamination to other areas such as utility corridors, living spaces, and the outside will be sealed utilizing caulk, spray foam, concrete or other appropriate materials.
10. Contamination in inaccessible areas may be left in place. A knee wall may be constructed around these areas to ensure that contamination does not migrate to remediated areas. In tight spaces such as eaves, foam and other barriers may be used to seal areas where it is not feasible to remove contamination.
11. Minor demolition work is often required to access contamination. If visible demolition work is necessary, approval from the property owner will be obtained specifically for the demolition.
12. Vermiculite or Libby Amphibole Contaminated Soils (LACS) in crawlspaces will be removed, covered, or isolated. Isolation will only be utilized in limited use areas that are rarely accessed. Isolated areas will still permit limited access. Plastic sheeting or concrete may be use to cover contaminated material. Shotcrete may be applied to contaminated areas that are not horizontal as a form of containment (i.e. walls with vermiculite building aggregates).
13. Under some circumstances it might be necessary to cut electrical service during removals to ensure the safety of our workers. Power companies require that the electrical service to a structure (power pole, conduit, & service panel) meet current building codes before they will restore electricity. If electrical service is cut it will



become the responsibility of the property's owner to ensure the system meets current building codes for the structure before it gets re-energized.

14. An 18" x 18" access is the minimum dimension requirement for entry and exit to interiors. A second, smaller access is required for the negative air hose. Property owner approval will be obtained prior to enlarging existing access or creating a new access.
15. After removal activities, areas will be inspected and/or sampled to ensure that the contamination pathway was removed. The property owner may return only after the results indicate that the contamination has been removed to EPA Standards.

### Interior Investigation Findings:

(List locations of proposed removal activities)

Attic [ ]
Basement [ ]
Crawlspace [ ]
Interior Space(s) [ ]
Sheds, Barns, Garages, Pump Houses, or other Outbuildings[ ]

If necessary, can we cut new access to interior spaces to remove contaminated materials? Y / N

### Items to be removed by the Owner before the start of Site Set-Up activities\*:

(Use additional sheets as necessary)

Item:
Item:
Item:

*\*The removal, storage, disposal and/or return of these items is the property owner's responsibility.*

### Items to be removed and disposed of by the contractor during remediation activities and NOT REPLACED

(Use additional sheets as necessary)

Item:
Item:
Item:





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Items to be removed, saved and reinstalled by the Contractor during remediation activities  
and REPLACED:

(Use additional sheets as necessary)

Item:
Item:
Item:

### Relocation Meeting Notes

Relocation Required: Yes / No

Number of people age 12 & over: \_\_\_\_\_

Number of people age 11 & under: \_\_\_\_\_

Accommodations during relocation (pending availability):

Venture / Sandman / RV Park / Rental / Other \_\_\_\_\_

Number of:

Dogs: Small \_\_\_\_ / Large \_\_\_\_ Kennel Required? Yes / No

Cats: \_\_\_\_\_ Kennel Required? Yes / No

Birds: \_\_\_\_\_ Kennel Required? Yes / No

Other \_\_\_\_\_ Kennel Required? Yes / No

When the electricity is shut off, what needs to stay on?

Refrigerator yes / no

Freezer yes / no location (list all) \_\_\_\_\_

Answering machine yes / no location \_\_\_\_\_

Fish Tank yes / no location \_\_\_\_\_

Sump Pump yes / no location \_\_\_\_\_

Other \_\_\_\_\_ location \_\_\_\_\_



Other \_\_\_\_\_ location \_\_\_\_\_

Where are the underground utilities that are sensitive to equipment loads?  
(i.e. Septic tank, Leach Fields, Dry Wells)

If being relocated, are there any plants/animals/fish inside that need taken care of?



## Additional Comments / Special Instructions

I acknowledge that I have reviewed this Removal and Restoration Agreement and the attached Exterior Remediation and Restoration Plan(s) plans for the property located at the address referenced on the first page. I, BRIGID BURKE, hereby certify that the information  
(property owner's name)  
provided by me in this agreement is to the best of knowledge true, accurate and complete. I agree to the removal and restoration of my property as outlined in this agreement.

Brigid Burke 4/12/13  
Property Owner's Signature Date

John E. 4/12/13  
Contractor's Representative Signature Date

If the owner or resident has questions or concerns, he or she should contact their  
Community Involvement Coordinator at \_\_\_\_\_  
or the Property Coordination Office at 406-293-3690.





- NOTES:
- LOCATIONS ARE APPROXIMATE.
  - AREAS REQUIRING REMOVAL HAVE BEEN INDICATED IN THE FIELD USING GREEN FLAGGING.
  - EXC ZONE 'B' DOES NOT REQUIRE RESTORATION.
  - EXCAVATION IN ZONE 'B' SHALL CONTINUE UNTIL NO VERMICULITE IS OBSERVED IN THE FLOOR OF EXCAVATION AND CLEARANCE SOIL SAMPLE RESULT IS ND.

EXTERIOR REMOVAL NOTES:  
(REFER TO REMOVAL AND RESTORATION DOCUMENTS FOR ADDITIONAL INFORMATION)

- IF APPLICABLE, THE ELECTRICITY TO THE HOUSE WILL BE TURNED OFF AS REQUIRED FOR CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS TO SUPPLY, AS NEEDED, A GENERATOR TO SUPPLY ELECTRICITY TO APPLIANCES. PLEASE REFER TO PRI-ER RESTORATION AGREEMENT FOR LOCATIONS OF APPLICABLE ELECTRICAL COMPONENTS.
- UNDERGROUND UTILITIES AND SEPTIC SYSTEMS MAY BE PRESENT ON THE PROPERTY. IF KNOWN, THEY ARE MARKED IN APPROXIMATE LOCATIONS ONLY. PROCEED WITH CAUTION IN ALL EXCAVATION AREAS.
- WHEN SHOWN, LOCATION OF DECONTAMINATION STATIONS AND BREAK AREAS ARE SUBJECT TO CHANGE WITH EXCAVATION CONDITIONS. THESE AREAS WILL NOT CHANGE IN RELATION TO EACH OTHER AND WILL BE PRESENT AT ALL TIMES DURING REMOVAL ACTIVITIES.
- IF APPLICABLE, REMOVE AND DISPOSE OF THE FIRST LAYER OF FIREWOOD IN CONTACT WITH CONTAMINATED SOIL.
- MISCELLANEOUS ITEMS NOT REFERRED TO IN THE RESTORATION AGREEMENT ARE TO BE CLEANED AND STAGED FOR REINSTALLATION.
- SEE ADDITIONAL NOTES ON ATTACHED RRA SYNOPSIS AND PRE FORM(S).

LEGEND

- 12" BGS EXCAVATION DEPTH
- DE-CON AREA
- BREAK AREA
- EXCAVATION ACCESS
- NS NOT INSPECTED/SAMPLED - SEE INVESTIGATION DATA
- NO EXCAVATION REQUIRED PER CURRENT REMOVAL CRITERIA

JEREMY AYALA  
Digitally signed by AYALA JEREMY A.1403662697  
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=AYALA JEREMY A.1403662697  
Date: 2013.04.15 09:32:58 -05'00'

GOVERNMENT REPRESENTATIVE DATE

SHEET:  1  OF 2	LIBBY ASBESTOS PROJECT LINCOLN COUNTY, MONTANA  US EPA Region VIII Denver, Colorado  US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM	AD #: 000686 GEOUNIT #: 5730 GRZ #: 00  LINCOLN COUNTY PORT AUTHORITY 875 US HIGHWAY 2 EXCAVATION DESIGN	DRAWING BY/DATE T. ROBERTSON 03/28/13	REVISION #: 0	REVISION DATE: 04/12/13	DESCRIPTION:
			QC REVIEW BY/DATE K. MCKENZIE 04/03/13	N/A	N/A	N/A
			DRAWING FINALIZED BY/DATE T. ROBERTSON 04/12/13	N/A	N/A	N/A
				N/A	N/A	N/A

..\\OU4\\STREET BY NAME\\US HIGHWAY 2\\875 US HIGHWAY 2\\FISHING POND\\CAD\\-FINAL DESIGN-REV 0.DWG





SHEET: 2 OF 2

LIBBY ASBESTOS PROJECT  
LINCOLN COUNTY, MONTANA

US EPA  
Region VIII  
Denver, Colorado

US ARMY CORPS OF ENGINEERS  
OMAHA DISTRICT  
RAPID RESPONSE PROGRAM

AD #: 000686 GEOUNIT #: 5730 GRZ #: 00

LINCOLN COUNTY PORT AUTHORITY

875 US HIGHWAY 2  
EXCAVATION DESIGN

DRAWING BY/DATE	REVISION #	REVISION DATE	DESCRIPTION
T. ROBERTSON 03/28/13	0	04/12/13	
QC REVIEW BY/DATE	N/A	N/A	N/A
K. MCKENZIE 04/03/13	N/A	N/A	N/A
DRAWING FINALIZED BY/DATE	N/A	N/A	N/A
T. ROBERTSON 04/12/13	N/A	N/A	N/A

..\\004\\STREET BY NAME\\US HIGHWAY 2\\875 US HIGHWAY 2\\FISHING POND\\CAD\\-FINAL DESIGN-REV 0.DWG







875 US Highway 2  
Proposed Fishing Pond Location  
AD-000686  
6/6/12, 6/7/12, 6/15/12, 6/18/12, 6/19/12, 6/27/12  
DI Visible and Analytical Sketch  
M. Jackson, M. Luick, D. Coleman, J. Peltier,  
K. Anderson, A. Vivian, C. Hislop (CDM Smith)

 **COPY**

**Legend**

PLM-VE Results

 Trace Result

 Non-detect Result

Pile of building debris.  
No VCI observed.  
No sample taken.

Pile of wood chips,  
not sampled

Blue areas sampled  
during 2008 visit

Approximate location  
of fence line.

16  
Road

500 ft

PLM-VE

ZONE	TYPE	AREA(FT <sup>2</sup> )	X	L	M	H	LOCATION ID	SAMPLE ID	RESULT
1	LUA	15000	30	0	0	0	SP-146860	7-00041	ND
2	LUA	15000	29	1	0	0	SP-146861	7-00042	ND
3	LUA	15000	30	0	0	0	SP-146862	7-00043	ND
4	LUA	15000	30	0	0	0	SP-146863	7-00044	ND
5	LUA	15000	30	0	0	0	SP-146864	7-00045	ND
6	LUA	15000	30	0	0	0	SP-146865	7-00046	ND
7	LUA	15000	30	0	0	0	SP-146866	7-00047	TR
8	LUA	15000	30	0	0	0	SP-146867	7-00048	ND
9	LUA	15000	30	0	0	0	SP-146868	7-00049	ND
10	LUA	15000	30	0	0	0	SP-146869	7-00050	ND
11	LUA	15000	30	0	0	0	SP-146870	7-00051	ND
12	LUA	15000	30	0	0	0	SP-146871	7-00052	ND
13	LUA	15000	30	0	0	0	SP-146872	7-00053	ND
14	LUA	15000	30	0	0	0	SP-146873	7-00054	ND
15	LUA	15000	30	0	0	0	SP-146874	7-00055	ND
16	LUA	15000	28	2	0	0	SP-146875	7-00056	ND
17	LUA	15000	15	15	0	0	SP-146875	7-00057	ND
18	LUA	15000	30	0	0	0	SP-146877	7-00058	ND
19	LUA	15000	30	0	0	0	SP-146878	7-00059	ND
20	LUA	15000	30	0	0	0	SP-146879	7-00060	ND
21	LUA	15000	30	0	0	0	SP-146880	7-00061	TR
22	LUA	15000	30	0	0	0	SP-146881	7-00062	TR
23	LUA	15000	30	0	0	0	SP-146882	7-00063	ND
24	LUA	15000	30	0	0	0	SP-146883	7-00064	TR
25	LUA	15000	30	0	0	0	SP-146884	7-00065	TR
26	LUA	15000	30	0	0	0	SP-146885	7-00066	TR
27	LUA	15000	30	0	0	0	SP-146886	7-00067	ND
28	LUA	15000	30	0	0	0	SP-146887	7-00068	TR
29	LUA	15000	30	0	0	0	SP-146888	7-00077	ND
30	LUA	15000	30	0	0	0	SP-146889	7-00078	TR
31	LUA	15000	30	0	0	0	SP-146890	7-00079	ND
32	LUA	15000	30	0	0	0	SP-146891	7-00080	ND
33	LUA	15000	30	0	0	0	SP-146892	7-00081	ND
34	LUA	15000	30	0	0	0	SP-146893	7-00082	ND
35	LUA	15000	30	0	0	0	SP-146894	7-00083	ND
36	LUA	15000	30	0	0	0	SP-146895	7-00084	ND
37	LUA	15000	30	0	0	0	SP-146896	7-00085	ND
38	LUA	15000	30	0	0	0	SP-146905	7-00086	ND
39	LUA	15000	28	2	0	0	SP-146906	7-00087	TR

Note: Square footage is approximate and is not intended for use in the design process.

TEM-ISO

ZONE	TYPE	AREA(FT <sup>2</sup> )	X	L	M	H	LOCATION ID	SAMPLE ID	RESULT
29	LUA	15000	30	0	0	0	SP-146888	7-00069	ND
30	LUA	15000	30	0	0	0	SP-146889	7-00070	ND
31	LUA	15000	30	0	0	0	SP-146890	7-00071	ND
32	LUA	15000	30	0	0	0	SP-146891	7-00072	ND
33	LUA	15000	30	0	0	0	SP-146892	7-00073	9.51E+06 s/g
34	LUA	15000	30	0	0	0	SP-146893	7-00074	ND
35	LUA	15000	30	0	0	0	SP-146894	7-00075	ND
36	LUA	15000	30	0	0	0	SP-146895	7-00076	Analysis Cancelled

Note: Square footage is approximate and is not intended for use in the design process.

2007 Former Nursery Area Results

ZONE	X	L	M	H	LOCATION ID	SAMPLE ID	RESULT
A	27	3	0	0	SP-136375	SL-70068	ND
B	29	1	0	0	SP-136377	SL-70070	ND
C	25	5	0	0	SP-136374	SL-70067	ND
D	29	1	0	0	SP-136376	SL-70069	ND
E	21	6	2	1	SP-136378	SL-70071	ND
F	25	5	0	0	SP-136380	SL-70073	TR
G	24	5	1	0	SP-136381	SL-70074	TR
H	25	4	1	0	SP-136379	SL-70072	1%
I	30	0	0	0	SP-136383	SL-70076	ND
J	27	3	0	0	SP-136382	SL-70075	ND
K	28	1	1	0	SP-136384	SL-70077	TR

Note: Test pit results for waste bark pile sampling all ND except the 6-8 ft interval in zone 35 which had a PLM-9002 TR result.



875 US Highway 2  
Proposed Fishing Pond Location  
AD-000686  
6/6/12, 6/7/12, 6/15/12, 6/18/12, 6/19/12, 6/27/12  
DI Visible and Analytical Sketch  
M. Jackson, M. Luick, D. Coleman, J. Peltier,  
K. Anderson, A. Vivian, C. Hislop (CDM Smith)

3-14-13 REVISIT TO SAMPLE FORMER NUA  
AREA IMPACTED BY THE PROPOSED  
FISHING POND.  
S. WILSON (CDM SMITH)

THESE AREAS OF NUA WERE NOT INSPECTED  
OR SAMPLED. THE FLAGGING PUT UP BY THE  
COUNTY SHOWING THE PROPOSED SITE OF  
FISHING POND DID NOT EXTEND TO INSIDE  
THE NUAS.

 **COPY**

**Legend**  
PLM-VE Results

Non-detect Result

APPROXIMATE POND BOUNDARY 03/05/13

#### PLM-VE

ZONE	TYPE	AREA(FT <sup>2</sup> )	X	L	M	H	LOCATION ID	SAMPLE ID	RESULT
11	LUA	15000	30	0	0	0	SP-146870	7-00051	ND
13	LUA	15000	30	0	0	0	SP-146872	7-00053	ND
14	LUA	15000	30	0	0	0	SP-146873	7-00054	ND
16	LUA	15000	28	2	0	0	SP-146875	7-00055	ND
17	LUA	15000	15	15	0	0	SP-146876	7-00057	ND
18	LUA	15000	30	0	0	0	SP-146877	7-00058	ND
19	LUA	15000	30	0	0	0	SP-146878	7-00059	ND
37	LUA	15000	30	0	0	0	SP-146896	7-00085	ND
38	LUA	15000	30	0	0	0	SP-146905	7-00086	ND

Note: Square footage is approximate and is not intended for use in the design process.

BLACK LINE SHOWS PROPOSED SITE OF  
FISHING POND. THIS LINE DOES NOT  
COMPLETELY MATCH SITE CONDITIONS OF  
THE FLAGGING PUT OUT BY LINCOLN COUNTY

STILL NUA - NOT SAMPLED

FORMER NUA SAMPLED ON 3-14-13.  
NO VCS OBSERVED. SP-146237, 7-00114 ND

500 ft





SHEET: 2 OF 2

LIBBY ASBESTOS PROJECT  
LINCOLN COUNTY, MONTANA

US EPA  
Region VIII  
Denver, Colorado

US ARMY CORPS OF ENGINEERS  
OMAHA DISTRICT  
RAPID RESPONSE PROGRAM

AD #: 000686 GEOUNIT #: 5730 GRZ #: 00

LINCOLN COUNTY PORT AUTHORITY  
875 US HIGHWAY 2  
RESTORATION DESIGN

DRAWING BY/DATE	REVISION #:	REVISION DATE:	DESCRIPTION:
T. ROBERTSON 03/28/13	0	04/12/13	
QC REVIEW BY/DATE	N/A	N/A	N/A
K. MCKENZIE 04/03/13	N/A	N/A	N/A
DRAWING FINALIZED BY/DATE	N/A	N/A	N/A
T. ROBERTSON 04/12/13			

...\\OU4\STREET BY NAME\US HIGHWAY 2\875 US HIGHWAY 2\FISHING POND\CAD\--FINAL DESIGN--REV 0.DWG



875 US Highway 2



**EMSL Analytical, Inc.**

107 West 4th Street, Libby, MT 59923

Phone/Fax: (406) 293-9066 /

<http://www.emsl.com>

[mobileasbestoslab@emsl.com](mailto:mobileasbestoslab@emsl.com)

EMSL Order: 271300106  
CustomerID: TECH25  
CustomerPO:  
ProjectID: Libby

Attn: **Doug Kent**  
**TechLaw, Inc.**  
**ESAT Region 8**  
**16194 W. 45th Drive**  
**Golden, CO 80403**

Phone: (303) 312-7725  
Fax:  
Received: 04/18/13 8:58 AM  
Analysis Date: 4/18/2013  
Collected: 4/17/2013

Project: 23490 Sample collected 4/17/2013

**Test Report: Polarized Light Microscopy (PLM) Performed  
by Modified NIOSH Method 9002, Issue 2**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4R-00101	B	Tan		100% Non-fibrous (other)	None Detected
271300106-0001	<u>1</u>	Non-Fibrous Homogeneous			

TechLaw QC Type: Not QC  
TechLaw Lab: EMSL27

*Ajh* 4/19/13

*M. Farnham*  
*G. Heller*

Analyst(s)

Kelly Colberg (1)

*[Signature]*  
Ed Cahill  
or other approved signatory

Disclaimers: This report format for the NIOSH 9002 method has been modified to report discreet asbestos concentrations instead of ranges. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Libby, MT

Initial report from 04/18/2013 13:47:38



Event ID: 4/20/4131

Libby Soil-like Sample & Location  
Field Sample Data Sheet

FSDS # S - 1117085

Address: 875 145 Highway 2

Date: 4-19-20

Property ID: AD- 000686 Logbook # 101412 Pgs 4 Sampler(s): M. Farnham

Data Item	1	2	3
* Location ID	SP- 147387		
* Is this a new Location	<input checked="" type="checkbox"/> Yes No Revised If No, "Z" through location section	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Revised If No, "Z" through location section	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Revised If No, "Z" through location section
* Location Type	EA		
* Location Description	PROPERTY		
Location Area (ft <sup>2</sup> )			
Location Comment			
Location Comment2			
* Visible Vermiculite	N <u>30</u> L <u>0</u> M <u>0</u> H <u>0</u>	N <u>  </u> L <u>  </u> M <u>  </u> H <u>  </u>	N <u>  </u> L <u>  </u> M <u>  </u> H <u>  </u>
* Soil Depth Top	<u>12</u> Inches	Inches	Inches
* Soil Depth Bottom	<u>14</u> Inches	Inches	Inches
Visible Vermiculite SubLocation			
Visible Vermiculite Comments	ND		
* Sample Collected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, "Z" through sample section	<input type="checkbox"/> Yes <input type="checkbox"/> No If No, "Z" through sample section	<input type="checkbox"/> Yes <input type="checkbox"/> No If No, "Z" through sample section
* Sample ID	4R- 00101		
* Sample Time	<u>1432</u>		
* ABS	<input checked="" type="checkbox"/> N <input type="checkbox"/> Y	<input type="checkbox"/> N <input type="checkbox"/> Y	<input type="checkbox"/> N <input type="checkbox"/> Y
* Sample Venue	Indoor <input checked="" type="checkbox"/> Outdoor NA	Indoor Outdoor NA	Indoor Outdoor NA
* Sample PrePostClear	NA Pre Post Clear: <input checked="" type="checkbox"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>
* Sample Type	<input checked="" type="checkbox"/> FS FD Other <u>  </u>	FS FD Other <u>  </u>	FS FD Other <u>  </u>
Sample Parent ID			
* Composite	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
* Sample/Inspection Aliquots	<input checked="" type="checkbox"/> 30 Other <u>  </u> 0	30 Other <u>  </u> 0	30 Other <u>  </u> 0
Sample Location Description	1		
Sample Field Comments			

V 120120 \*Required Field \*\*List company after Sampler(s) if not "CDM Smith" "Soil Depth Top" &amp; "Soil Depth Bottom" refer to VV &amp;/or sample

For Field Team Completion: Completed by: ME QC by: ACU

For Data Entry: Entered by: JH QC by: JH

23490

USACE/Libby Asbestos Project Logbook # 101412  
Address: 875 US Highway 2 Date: 4-17-13  
Weather: 48°F Sunny PPE: Level Mod C  
AD-000 686 Author: M. Farnham (CDM Smith)

Removal Contractor: **PRI / ER** Activities: **Soil Sampling**

All activities conducted in accordance with Response Action  
Sampling and Analysis Plan (RA SAP) Rev. 3 - 2013

1310 on site to collect soil sample.  
1432 extracted sample in Zone 1  
and recorded location on FSDS#S-107483.  
No VCS was observed during sampling.  
30 allocates were extracted.  
1530 off site.  
1535 Sample Relinquished to CDM Smith  
Sample coordinator.

M. Farnham  
4-17-13



875 US Highway 2



**EMSL Analytical, Inc.**

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Phone/Fax: (406) 293-9066 /

<http://www.emsl.com>

[mobileasbestoslab@emsl.com](mailto:mobileasbestoslab@emsl.com)

EMSL Order: 271300108

CustomerID: TECH25

CustomerPO:

ProjectID: Libby

Attn: **Doug Kent**  
**TechLaw, Inc.**  
**ESAT Region 8**  
**16194 W. 45th Drive**  
**Golden, CO 80403**

Phone: (303) 312-7725  
Fax:  
Received: 04/18/13 1:58 PM  
Analysis Date: 4/19/2013  
Collected: 4/18/2013

Project: 23495 Samples collected 4/18/2013

**Test Report: Polarized Light Microscopy (PLM) Performed  
by Modified NIOSH Method 9002, Issue 2**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4R-00104 271300108-0001	B 2	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TechLaw QC Type: Not QC TechLaw Lab: EMSL27					
4R-00105 271300108-0002	B 3	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TechLaw QC Type: Not QC TechLaw Lab: EMSL27					
4R-00106 271300108-0003	B 4	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TechLaw QC Type: Not QC TechLaw Lab: EMSL27					

gjh 4/19/13

M. Farnham  
G. Heller

Analyst(s)

Kelly Colberg (3)

Ed Cahill  
or other approved signatory

Disclaimers: This report format for the NIOSH 9002 method has been modified to report discreet asbestos concentrations instead of ranges. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Libby, MT

Initial report from 04/19/2013 07:50:12



Libby Soil-like Sample & Location  
Field Sample Data Sheet

FSDS # S - 107484

Address 875 US HIGHWAY 2

Date 4-18-13

Property ID: AD- 000684 Logbook # 101412 Pgs 6 Sampler(s) M. Farnham

Data Item	1	2	3
Location ID	<b>SP- 147388</b>	<b>SP- 147389</b>	<b>SP- 147390</b>
Is this a new Location	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section
Location Type	<u>EA</u>		
Location Description	<u>PROPERTY</u>		
Location Area (ft <sup>2</sup> )			
Location Comment			
Location Comment2			
Visible Vermiculite	<u>N30 L0 M0 H0</u>	<u>N30 L0 M0 H0</u>	<u>N30 L0 M0 H0</u>
Soil Depth Top	<u>12</u> Inches	<u>12</u> Inches	<u>12</u> Inches
Soil Depth Bottom	<u>20</u> Inches	<u>14</u> Inches	<u>14</u> Inches
Visible Vermiculite SubLocation			
Visible Vermiculite Comments	<b>ND</b>	<b>ND</b>	<b>ND</b>
Sample Collected	<input checked="" type="radio"/> Yes No If No, "Z" through sample section	<input checked="" type="radio"/> Yes No If No, "Z" through sample section	<input checked="" type="radio"/> Yes No If No, "Z" through sample section
Sample ID	<b>4R- 00104</b>	<b>4R- 00105</b>	<b>4R- 00106</b>
Sample Time	<u>1120</u>	<u>1141</u>	<u>1158</u>
ABS	<input checked="" type="radio"/> N Y	<input checked="" type="radio"/> N Y	<input checked="" type="radio"/> N Y
Sample Venue	Indoor <input checked="" type="radio"/> Outdoor NA	Indoor <input checked="" type="radio"/> Outdoor NA	Indoor <input checked="" type="radio"/> Outdoor NA
Sample PrePostClear	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>
Sample Type	<input checked="" type="radio"/> FS FD Other	<input checked="" type="radio"/> FS FD Other	<input checked="" type="radio"/> FS FD Other
Sample Parent ID			
Composite	<input checked="" type="radio"/> Y N	<input checked="" type="radio"/> Y N	<input checked="" type="radio"/> Y N
Sample/Inspection Aliquots	<input checked="" type="radio"/> 30 Other 0	<input checked="" type="radio"/> 30 Other 0	<input checked="" type="radio"/> 30 Other 0
Sample Location Description	<u>2</u>	<u>3</u>	<u>4</u>
Field Comments			

23495

Required Field List company after Sampler(s) if not "CDM Smith" "Soil Depth Top" & "Soil Depth Bottom" refer to VV &/or sample

Field Team Completion: Completed by: ME QC by: ME For Data Entry: Entered by: ME QC by: ME



USACE/Libby Asbestos Project Logbook # 101412  
Address: 875 US Highway 2 Date: 4-18-13  
Weather: 50°F Sunny PPE: Level Mod C  
AD-00 0696 Author: M. Farnham (CDM Smith)  
Removal Contractor: PRI / ER Activities: Soil Sampling  
All activities conducted in accordance with Response Action  
Sampling and Analysis Plan (RA SAP) Rev. 3 - 2013

1120 Collected first soil sample and recorded  
the information on PSDS # S-107484.  
1141 Second sample was collected.  
1158 Third sample was collected. No VCS  
was observed. Equipment was deconned.  
1223 off site  
1231 Samples were relinquished to the CDM  
Smith Sample Coordinator.

M.E. Farnham 4-18-13



875 US Highway 2



**EMSL Analytical, Inc.**

107 West 4th Street, Libby, MT 59923

Phone/Fax: (406) 293-9066 /

<http://www.emsl.com>

[mobileasbestoslab@emsl.com](mailto:mobileasbestoslab@emsl.com)

EMSL Order: 271300109

CustomerID: TECH25

CustomerPO:

ProjectID: Libby

Attn: **Doug Kent**  
**TechLaw, Inc.**  
**ESAT Region 8**  
**16194 W. 45th Drive**  
**Golden, CO 80403**

Phone: (303) 312-7725

Fax:

Received: 04/19/13 12:06 PM

Analysis Date: 4/22/2013

Collected: 4/19/2013

Project: 23501 Samples Collected 4/19/2013

**Test Report: Polarized Light Microscopy (PLM) Performed  
by Modified NIOSH Method 9002, Issue 2**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4R-00109	B	Tan		100% Non-fibrous (other)	None Detected
271300109-0001	5	Non-Fibrous Homogeneous			

TechLaw QC Type: Not QC  
TechLaw Lab: EMSL27

M. Farnham

G. Heller

4/22/13

Analysis(s)

Kelly Colberg (1)

  
Ed Cahill  
or other approved signatory

Disclaimers: This report format for the NIOSH 9002 method has been modified to report discreet asbestos concentrations instead of ranges. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Libby, MT

Initial report from 04/22/2013 07:28:16

Test Report: PLM-7.28.7 Printed: 4/22/2013 7:28:16 AM

**THIS IS THE LAST PAGE OF THE REPORT.**



LIB ID 18-041513

Libby Soil-like Sample & Location  
Field Sample Data Sheet

FSDS # **S - 107485**

Address 875 US Highway 2

Date 4-19-13

Property ID: AD- 000686 Logbook # 101412 Pgs 8 Sampler(s)\*\* M. Farnham

Data Item	1	2	3
* Location ID	<b>SP- 147391</b>		
* Is this a new Location	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Revised <small>If No, "Z" through location section</small>	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Revised <small>If No, "Z" through location section</small>	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Revised <small>If No, "Z" through location section</small>
* Location Type	<u>EA</u>		
* Location Description	<u>PROPERTY</u>		
Location Area (ft <sup>2</sup> )			
Location Comment			
Location Comment2			
* Visible Vermiculite	N <u>30</u> L <u>0</u> M <u>0</u> H <u>0</u>	N <u>  </u> L <u>  </u> M <u>  </u> H <u>  </u>	N <u>  </u> L <u>  </u> M <u>  </u> H <u>  </u>
* Soil Depth Top	<u>12</u> Inches	Inches	Inches
* Soil Depth Bottom	<u>14</u> Inches	Inches	Inches
Visible Vermiculite SubLocation			
Visible Vermiculite Comments	<u>ND</u>		
* Sample Collected	<input checked="" type="radio"/> Yes <input type="radio"/> No <small>If No, "Z" through sample section</small>	<input type="radio"/> Yes <input checked="" type="radio"/> No <small>If No, "Z" through sample section</small>	<input type="radio"/> Yes <input checked="" type="radio"/> No <small>If No, "Z" through sample section</small>
* Sample ID	<b>4R- 00109</b>		
* Sample Time	<u>0900</u>		
* ABS	<input checked="" type="radio"/> N <input type="radio"/> Y	<input type="radio"/> N <input checked="" type="radio"/> Y	<input type="radio"/> N <input checked="" type="radio"/> Y
* Sample Venue	Indoor <input checked="" type="radio"/> Outdoor <input type="radio"/> NA	Indoor <input type="radio"/> Outdoor <input type="radio"/> NA	Indoor <input type="radio"/> Outdoor <input type="radio"/> NA
* Sample PrePostClear	NA Pre Post Clear: <u>1<sup>st</sup></u> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>
* Sample Type	<input checked="" type="radio"/> FS <input type="radio"/> FD Other <u>  </u>	<input type="radio"/> FS <input type="radio"/> FD Other <u>  </u>	<input type="radio"/> FS <input type="radio"/> FD Other <u>  </u>
Sample Parent ID			
* Composite	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
* Sample/Inspection Aliquots	<u>30</u> Other <u>  </u> 0	30 Other <u>  </u> 0	30 Other <u>  </u>
Sample Location Description	<u>5</u>		
Sample Field Comments	<u>Fish Pond EXCAVATION</u>		

*M. Farnham*  
4-19-13

23501

© 2012 \*Required Field \*\*List company after Sampler(s) if not "CDM Smith" "Soil Depth Top" & "Soil Depth Bottom" refer to VV &/or sample

Field Team Completion: Completed by: MF QC by: KDB For Data Entry: Entered by: gjh QC by: JD



875 US Highway 2



# EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone/Fax: (406) 293-9066 /

<http://www.emsl.com>

[mobileasbestoslab@emsl.com](mailto:mobileasbestoslab@emsl.com)

EMSL Order: 271300111

CustomerID: TECH25

CustomerPO:

ProjectID: Libby

Attn: **Doug Kent**  
**TechLaw, Inc.**  
**ESAT Region 8**  
**16194 W. 45th Drive**  
**Golden, CO 80403**

Phone: (303) 312-7725  
 Fax:  
 Received: 04/19/13 2:25 PM  
 Analysis Date: 4/22/2013  
 Collected: 4/19/2013

Project: 23502 Samples Collected 4/19/2012

## Test Report: Polarized Light Microscopy (PLM) Performed by Modified NIOSH Method 9002, Issue 2

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4R-00110 271300111-0001	B 6	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			TechLaw QC Type: Not QC TechLaw Lab: EMSL27		
4R-00111 271300111-0002	B 7	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			TechLaw QC Type: Not QC TechLaw Lab: EMSL27		
4R-00112 271300111-0003	B 8	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			TechLaw QC Type: Not QC TechLaw Lab: EMSL27		

gjh 4/22/13

M. Farnham

G. Heller

Analyst(s)

Kelly Colberg (3)

*Ed Cahill*  
 Ed Cahill  
 or other approved signatory

Disclaimers: This report format for the NIOSH 9002 method has been modified to report discreet asbestos concentrations instead of ranges. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Libby, MT

Initial report from 04/22/2013 08:03:14



Libby Soil-like Sample & Location  
Field Sample Data Sheet

FSDS # S- 107486

Address 875 US Highway 2

Date 4-19-13

Property ID: AD- 000686 Logbook # 101412 Pgs 9 Sampler(s) M. Farnham

Data Item	1	2	3
Location ID	<b>SP- 147392</b>	<b>SP- 147393</b>	<b>SP- 147394</b>
Is this a new Location	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section
Location Type	<u>EA</u>		
Location Description	<u>PROPERTY</u>		
Location Area (ft <sup>2</sup> )			
Location Comment			
Location Comment2			
Visible Vermiculite	<u>N 30 L 0 M 0 H 0</u>	<u>N 30 L 0 M 0 H 0</u>	<u>N 30 L 0 M 0 H 0</u>
Soil Depth Top	<u>6</u> Inches	<u>6</u> Inches	<u>6</u> Inches
Soil Depth Bottom	<u>8</u> Inches	<u>40</u> Inches	<u>72</u> Inches
Visible Vermiculite SubLocation			
Visible Vermiculite Comments	<u>ND</u>	<u>ND</u>	<u>ND</u>
Sample Collected	<input checked="" type="radio"/> Yes No If No, "Z" through sample section	<input checked="" type="radio"/> Yes No If No, "Z" through sample section	<input checked="" type="radio"/> Yes No If No, "Z" through sample section
Sample ID	<b>4R- 00110</b>	<b>4R- 00111</b>	<b>4R- 00112</b>
Sample Time	<u>1228</u>	<u>1237</u>	<u>1245</u>
ABS	<input checked="" type="radio"/> N Y	<input checked="" type="radio"/> N Y	<input checked="" type="radio"/> N Y
Sample Venue	Indoor <input checked="" type="radio"/> Outdoor NA	Indoor <input checked="" type="radio"/> Outdoor NA	Indoor <input checked="" type="radio"/> Outdoor NA
Sample PrePostClear	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>
Sample Type	<input checked="" type="radio"/> FS FD Other	<input checked="" type="radio"/> FS FD Other	<input checked="" type="radio"/> FS FD Other
Sample Parent ID			
Composite	<input checked="" type="radio"/> Y N	<input checked="" type="radio"/> Y N	<input checked="" type="radio"/> Y N
Sample/Inspection Aliquots	<u>(30)</u> Other 0	<u>(30)</u> Other 0	<u>(30)</u> Other 0
Sample Location Description	<u>6</u>	<u>7</u>	<u>8</u>
Sample Field Comments	<u>FISH POND EXCAVATION</u>	<u>EXCAVATION TOOK PLACE IN A PIT WITH SLOPED WALLS</u>	

23502

EN \*Required Field \*\*List company after Sampler(s) if not "CDM Smith" "Soil Depth Top" & "Soil Depth Bottom" refer to VV &/or sample

Form Completion: Completed by: MEF QC by: SWI

For Data Entry: Entered by: HT QC by: ph



USACE/Libby Asbestos Project Logbook # 101412  
Address: 875 US Highway 2 Date: 4-19-13  
Weather: 42°F Cloudy PPE: **Level Mod C**  
AD-00 0686 Author: **M. Farnham (CDM Smith)**  
Removal Contractor: **PRI / ER** Activities: **Soil Sampling**  
All activities conducted in accordance with Response Action  
Sampling and Analysis Plan (RA SAP) Rev. 3 - 2013

USACE/Libby Asbestos Project Logbook # 101412  
Address: 875 US Highway 2 Date: 4-19-13  
Weather: 48°F Cloudy, Rainy PPE: **Level Mod C**  
AD-00 0686 Author: **M. Farnham (CDM Smith)**  
Removal Contractor: **PRI / ER** Activities: **Soil Sampling**  
All activities conducted in accordance with Response Action  
Sampling and Analysis Plan (RA SAP) Rev. 3 - 2013

0804 on site  
0900 Extracted 1 soil sample in Area B  
and recorded it on FSDS# 107485. Equip-  
ment was de-conned. No VCS was  
observed.  
1015 off site.  
1021 Sample was relinquished to the  
CDM Smith Sample Coordinator.

*M.E. Farnham*  
4-19-13

1202 on site to extract three soil  
samples. Samples recorded on FSDS#  
107486. These samples were extracted  
in the expansion area which contains  
a pit with sloped walls. The expansion  
called to excavate in 6 inch increments  
if VV is observed. Equipment was de-  
conned. No VCS was observed.

1311 off site.  
1325 Relinquished samples  
to CDM Smith Sample  
Coordinator

*M.E. Farnham*  
4-19-13





875 US Highway 2



**EMSL Analytical, Inc.**

107 West 4th Street, Libby, MT 59923

Phone/Fax: (406) 293-9066 /

<http://www.emsl.com>

[mobileasbestoslab@emsl.com](mailto:mobileasbestoslab@emsl.com)

EMSL Order: 271300114

CustomerID: TECH25

CustomerPO:

ProjectID: Libby

Attn: **Doug Kent**  
**TechLaw, Inc.**  
**ESAT Region 8**  
**16194 W. 45th Drive**  
**Golden, CO 80403**

Phone: (303) 312-7725

Fax:

Received: 04/22/13 1:01 PM

Analysis Date: 4/23/2013

Collected: 4/22/2013

Project: 23510 Samples collected 4/22/2013

**Test Report: Polarized Light Microscopy (PLM) Performed  
by Modified NIOSH Method 9002, Issue 2**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4R-00113 271300114-0001	B 9	Tan Non-Fibrous Homogeneous	TechLaw QC Type: Not QC TechLaw Lab: EMSL27	100% Non-fibrous (other)	None Detected
4R-00114 271300114-0002	B 10	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4R-00115 271300114-0003	B 11	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4R-00116 271300114-0004	B 12	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4R-00117 271300114-0005	B 13	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Fish Pond

gjk 4/23/13

M. Farnham  
G. Heller

Analyst(s)

Kelly Colberg (5)

*Ed Cahill*  
Ed Cahill  
or other approved signatory

Disclaimers: This report format for the NIOSH 9002 method has been modified to report discrete asbestos concentrations instead of ranges. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Libby, MT

Initial report from 04/23/2013 08:21:19



SID

4R-041513

Libby Soil-like Sample &amp; Location

FSDS # S - 107487

Field Sample Data Sheet

Address 875 US Highway 2

Date 4-22-13

Property ID: AD- 000686 Logbook # 101412 Pgs 10 Sampler(s)\*\* M. Farnham

Data Item	1	2	3
Location ID	SP- 147395	SP- 147396	SP- 147397
* Is this a new Location	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section
* Location Type	EA		
* Location Description	PROPERTY		
Location Area (ft <sup>2</sup> )			
Location Comment			
Location Comment2			
* Visible Vermiculite	N28 L2 M0 H0	N28 L2 M0 H0	N27 L3 M0 H0
* Soil Depth Top	6 Inches	6 Inches	6 Inches
* Soil Depth Bottom	74 Inches	8 Inches	8 Inches
Visible Vermiculite SubLocation			
Visible Vermiculite Comments	ND	ND	ND
* Sample Collected	<input checked="" type="radio"/> Yes No If No, "Z" through sample section	<input checked="" type="radio"/> Yes No If No, "Z" through sample section	<input checked="" type="radio"/> Yes No If No, "Z" through sample section
* Sample ID	4R- 00113	4R- 00114	4R- 00115
* Sample Time	1005	1022	1038
* ABS	<input checked="" type="radio"/> N Y	<input checked="" type="radio"/> N Y	<input checked="" type="radio"/> N Y
* Sample Venue	Indoor <input checked="" type="radio"/> Outdoor NA	Indoor <input checked="" type="radio"/> Outdoor NA	Indoor <input checked="" type="radio"/> Outdoor NA
* Sample PrePostClear	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>
* Sample Type	<input checked="" type="radio"/> FS FD Other	<input checked="" type="radio"/> FS FD Other	<input checked="" type="radio"/> FS FD Other
Sample Parent ID			
Composite	<input checked="" type="radio"/> Y N	<input checked="" type="radio"/> Y N	<input checked="" type="radio"/> Y N
Sample/Inspection Aliquots	<input checked="" type="radio"/> 30 Other 0	<input checked="" type="radio"/> 30 Other 0	<input checked="" type="radio"/> 30 Other
Sample Location Description	9	10	11
Sample Field Comments	Fish Pond Excavation		

23510

12/1/20 Required Field \*\*List company after Sampler(s) if not "CDM Smith" "Soil Depth Top" &amp; "Soil Depth Bottom" refer to VV &amp;/or sample

Field Team Completion: Completed by: MEF QC by: AMC

For Data Entry:

Entered by: pjh

QC by: JH



Field Sample Data Sheet

Address **875 US Highway 2**
 Date **4-22-13**

Property ID: AD- **000686**
 Logbook # **101412**
 Pgs **10**
 Sampler(s)\*\* **M. Farnham**

Data Item	1	2	3
Location ID	<b>SP- 147398</b>	<b>SP- 147399</b>	
Is this a new Location	<input checked="" type="checkbox"/> Yes No Revised If No, "Z" through location section	<input checked="" type="checkbox"/> Yes No Revised If No, "Z" through location section	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Revised If No, "Z" through location section
Location Type	<b>EA</b>		
Location Description	<b>PROPERTY</b>		
Location Area (ft <sup>2</sup> )			
Location Comment			
Location Comment2			
Visible Vermiculite	<b>N28 L2 M0 H0</b>	<b>N30 L0 M0 H0</b>	<b>N__ L__ M__ H__</b>
Soil Depth Top	<b>12</b> Inches	<b>6</b> Inches	<b>_____</b> Inches
Soil Depth Bottom	<b>14</b> Inches	<b>14</b> Inches	<b>_____</b> Inches
Visible Vermiculite SubLocation			
Visible Vermiculite Comments	<b>ND</b>	<b>ND</b>	
Sample Collected	<input checked="" type="checkbox"/> Yes No If No, "Z" through sample section	<input checked="" type="checkbox"/> Yes No If No, "Z" through sample section	<input type="checkbox"/> Yes <input type="checkbox"/> No If No, "Z" through sample section
Sample ID	<b>4R- 00116</b>	<b>4R- 00117</b>	
Sample Time	<b>1052</b>	<b>1105</b>	
ABS	<input checked="" type="checkbox"/> N <input type="checkbox"/> Y	<input checked="" type="checkbox"/> N <input type="checkbox"/> Y	<input type="checkbox"/> N <input type="checkbox"/> Y
Sample Venue	Indoor <input checked="" type="checkbox"/> Outdoor NA	Indoor <input checked="" type="checkbox"/> Outdoor NA	Indoor <input type="checkbox"/> Outdoor NA
Sample PrePostClear	NA Pre Post Clear: <input checked="" type="checkbox"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: <input checked="" type="checkbox"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>
Sample Type	<input checked="" type="checkbox"/> FS <input type="checkbox"/> FD Other _____	<input checked="" type="checkbox"/> FS <input type="checkbox"/> FD Other _____	<input type="checkbox"/> FS <input type="checkbox"/> FD Other _____
Sample Parent ID			
Composite	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Sample/Inspection Aliquots	<input checked="" type="checkbox"/> 30 Other _____ 0	<input checked="" type="checkbox"/> 30 Other _____ 0	<input type="checkbox"/> 30 Other _____ 0
Sample Location Description	<b>12</b>	<b>13</b>	
Sample Field Comments	<b>Fish Pond EXCAVATION</b>		

\*Required Field
 \*\*List company after Sampler(s) if not "CDM Smith"
 "Soil Depth Top" & "Soil Depth Bottom" refer to VV &/or sample

Field Team Completion: Completed by: **MEF** QC by: **AMC**
 For Data Entry: Entered by: **[Signature]** QC by: **[Signature]**



875 US Highway 2



**EMSL Analytical, Inc.**

107 West 4th Street, Libby, MT 59923

Phone/Fax: (406) 293-9066 /

<http://www.emsl.com>

[mobileasbestoslab@emsl.com](mailto:mobileasbestoslab@emsl.com)

EMSL Order: 271300119

CustomerID: TECH25

CustomerPO:

ProjectID: Libby

Attn: **Doug Kent**  
**TechLaw, Inc.**  
**ESAT Region 8**  
**16194 W. 45th Drive**  
**Golden, CO 80403**

Phone: (303) 312-7725

Fax:

Received: 04/22/13 4:31 PM

Analysis Date: 4/23/2013

Collected: 4/22/2013

Project: 23512 Sample collected 4/22/2013

**Test Report: Polarized Light Microscopy (PLM) Performed  
by Modified NIOSH Method 9002, Issue 2**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4R-00118	B	Tan		100% Non-fibrous (other)	<1% Tremolite/ Actinolite
271300119-0001	14	Non-Fibrous Homogeneous			

TechLaw Lab: EMSL27

Fish pond

pkh  
4/23/13

M. Farnham  
G. Heller

Analyst(s)

Kelly Colberg (1)

Ed Cahill  
or other approved signatory

Disclaimers: This report format for the NIOSH 9002 method has been modified to report discreet asbestos concentrations instead of ranges. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Libby, MT

Initial report from 04/23/2013 08:48:33



Libby Soil-like Sample & Location  
Field Sample Data Sheet

FSDS # S-107489

041513

Address 875 US Highway 2

Date 4-22-13

Property ID: AD-000686 Logbook # 101412 Pgs 11 Sampler(s) M. Farnham

Data Item	1	2	3
* Location ID	SP- 146238		
* Is this a new Location	<input checked="" type="radio"/> Yes No Revised If No, "Z" through location section	<input type="radio"/> Yes <input type="radio"/> No Revised If No, "Z" through location section	<input type="radio"/> Yes <input type="radio"/> No Revised If No, "Z" through location section
* Location Type	EA		
* Location Description	PROPERTY		
Location Area (ft <sup>2</sup> )			
Location Comment			
Location Comment2			
* Visible Vermiculite	N <u>30</u> L <u>0</u> M <u>0</u> H <u>0</u>	N <u>  </u> L <u>  </u> M <u>  </u> H <u>  </u>	N <u>  </u> L <u>  </u> M <u>  </u> H <u>  </u>
* Soil Depth Top	<u>12</u> Inches	Inches	Inches
* Soil Depth Bottom	<u>18</u> Inches	Inches	Inches
Visible Vermiculite SubLocation			
Visible Vermiculite Comments	1%		
* Sample Collected	<input checked="" type="radio"/> Yes No If No, "Z" through sample section	<input type="radio"/> Yes <input type="radio"/> No If No, "Z" through sample section	<input type="radio"/> Yes <input type="radio"/> No If No, "Z" through sample section
* Sample ID	4R- 00118		
* Sample Time	1502		
* ABS	<input checked="" type="radio"/> N <input type="radio"/> Y	<input type="radio"/> N <input type="radio"/> Y	<input type="radio"/> N <input type="radio"/> Y
* Sample Venue	Indoor <input checked="" type="radio"/> Outdoor NA	Indoor Outdoor NA	Indoor Outdoor NA
* Sample PrePostClear	NA Pre Post Clear: <input checked="" type="radio"/> 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>	NA Pre Post Clear: 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> 6 <sup>th</sup> 7 <sup>th</sup>
* Sample Type	<input checked="" type="radio"/> FS FD Other	FS FD Other	FS FD Other
Sample Parent ID			
Composite	<input checked="" type="radio"/> Y N	<input type="radio"/> Y N	<input type="radio"/> Y N
Sample/Inspection Duration	<input checked="" type="radio"/> 30 Other 0	30 Other 0	30 Other 0
Sample Location Description	14		
Sample Field Comments	Fish Pond EXCAVATION (AREA A)		

23512

20130 Required Field \*\*List company after Sampler(s) if not "CDM Smith" "Soil Depth Top" & "Soil Depth Bottom" refer to VV &/or sample

Field Team Completion: Completed by: MEF QC by: ARN

For Data Entry:

Entered by:

QC by:



USACE/Libby Asbestos Project Logbook # 101412  
 Address: 875 US Highway 2 Date: 4-22-13  
 Weather: 28°F Sunny PPE: Level Mod C  
 AD-00 0686 Author: M. Farnham (CDM Smith)  
 Removal Contractor: PRI / ER Activities: Soil Sampling  
 All activities conducted in accordance with Response Action  
 Sampling and Analysis Plan (RA SAP) Rev. 3 - 2013

0912 on site  
1005 Extracted <sup>MF 4-22-13</sup> ~~5~~ Five soil samples  
 and recorded data on FSDS# 5-107487 and  
 5-107488. VCS was observed in all but  
 one sample zone. Equipment was de-con.  
1200 off site.  
1212 Samples relinquished to the CDM  
 Smith Sample Coordinator.

*M. Farnham*  
 4-22-13

USACE/Libby Asbestos Project Logbook # 101412  
 Address: 875 US Highway 2 Date: 4-22-13  
 Weather: 40°F Sunny PPE: Level Mod C  
 AD-00 0686 Author: M. Farnham (CDM Smith)  
 Removal Contractor: PRI / ER Activities: Soil Sampling  
 All activities conducted in accordance with Response Action  
 Sampling and Analysis Plan (RA SAP) Rev. 3 - 2013

1502 Extracted one soil sample in  
 Area A and recorded the data on  
 FSDS# 5-107489. NO VCS observed.  
 Tremolite observed on north sidewall  
 which extends underneath the large  
 mound of dirt & rock. Poly is being  
 placed on that side wall and staples are  
 being used to secure it. Excavation  
 complete (Areas A & B).  
1610 Sample and FSDS relinquished  
 to the CDM Smith Sample Coordin-  
 ator.

*M. Farnham* 4-22-13

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR)

## DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/29/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0023

Task Order: 0003

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 5.0

REPORT AUTHOR: Michael E. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
Weather AM:	44° F Raining		
Weather PM:	45° F Raining		

ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED TODAY	
Staging and Pre-Construction Set-Up	100	Exterior Clearance	N/A
Exterior Removal	100	Personal Air Monitoring	N/A
Expansion of Removal Area	100	Perimeter Air Monitoring	N/A
Exterior Clearance	100	Clean Room Sampling	N/A
Exterior Backfill	100		
Exterior Restoration	100		

**PREPARATORY INSPECTION** ☐ REMOVAL ☒ RESTORATION ☐ NA

Time: QC PERSON: R. Sonju (ER)

IS THE FINAL WORK PLAN ON SITE?

☒ YES ☐ NO ☐ NA Comments:

QC/TQA FINAL WORK PLAN REVIEW?

☒ YES ☐ NO ☐ NA Comments:

HAS U-DIG MARKED UTILITIES?

☐ YES ☐ NO ☒ NA Comments:

ARE FIRE EXTINGUISHERS ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE AHA ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE RAWP ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THERE A CLEAN ROOM ON SITE?

☐ YES ☐ NO ☒ NA Comments:

IS POTABLE WATER FOR THE CLEAN ROOM ON SITE?

☐ YES ☐ NO ☒ NA Comments:

HAVE THE SITE HAZARDS BEEN IDENTIFIED?

☐ UG utility ☐ OH utility ☐ Septic ☐ Propane lines ☐ Tenants remaining on site

☐ Traffic ☐ Other:

DOES THE CONTAINMENT HAVE PROPER SIGNAGE?

☒ YES ☐ NO ☐ NA Comments:

HAVE REMOVAL/RESTO AREAS BEEN IDENTIFIED?

☒ YES ☐ NO ☐ NA Comments:

IS DUST CONTROL ON SITE?

☐ YES ☐ NO ☒ NA Comments:

IS TRAFFIC CONTROL REQUIRED?

☐ YES ☐ NO ☒ NA Comments:

WILL ENERGY SOURCES NEED TO BE LO/TD?

☐ YES ☐ NO ☒ NA Comments:



# THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/29/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0023

Task Order: 0003

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 5.0

REPORT AUTHOR: Michael E. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2		<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730			
PROPERTY ID:	AD-000686			
<b>QA INSPECTIONS</b>				
<input type="checkbox"/> Removal <input checked="" type="checkbox"/> Restoration				
CONSTRUCTION CREWS ON SITE? <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4				
<input type="checkbox"/> Other:				
PERSONNEL ON SITE? QC: _____ Operators: <u>1</u> Laborers: _____				
Other:				
EQUIPMENT ON SITE?				
List Equipment:	1 Bobcat skid steer			
REMOVAL/RESTO AREAS:	A			
DEPTH INCHES:	12-Jan			
IS PPE BEING USED CORRECTLY?				
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS TRAFFIC CONTROL IN PLACE?				
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
WERE POINT INSPECTIONS CONDUCTED?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS ACM BEING PROPERLY HANDLED?				
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE AREAS BEING EXCAVATED TO INTENDED DEPTH?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS A 1:1 SLOPE BEING MAINTAINED OFF OF STRUCTURES?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS WATER BEING USED FOR DUST CONTROL?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
ARE TOPS OF TRUCKS BEING SOAKED PRIOR TO TARPING?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
ARE TRUCKS BEING WASHED PRIOR TO DEPARTING THE SITE?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
ARE PARKED TRUCKS USING CHOCKS?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS THERE VV IN THE SIDEWALLS?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
DOES VV MIGRATE OFF SITE?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS THERE HIGH VV AT PLANNED DEPTH?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS ADDITIONAL REMOVAL REQUIRED?				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS EXCAVATION REQUIRED IN ANY SECONDARY STRUCTURES? (Air clearance not required)				
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR)

## DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/29/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0023

Task Order: 0003

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 5.0

REPORT AUTHOR: Michael E. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
IS EXCAVATION REQUIRED IN ANY SECONDARY BUILDINGS? (Air clearance required)			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA BD-			
WAS EQUIPMENT DECONNED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
ARE GRADE STAKES BEING USED?			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
IS EROSION CONTROL BEING IMPLEMENTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WAS STRUCTURAL FILL COMPACTED?			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
ARE THERE ANY ISSUES WITH THE BACKFILL?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE SIDEWALLS THAT CONTAIN VV COVERED WITH A POLY BARRIER?			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
<b>FINAL INSPECTION</b>			
<input type="checkbox"/> Removal <input type="checkbox"/> Restoration <input checked="" type="checkbox"/> NA			
TIME: QC PERSON:			
HAVE ALL AREAS BEEN REMOVED/RESTORED PER THE WORK PLANS?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
Comments:			
ARE THERE ANY OUTSTANDING ISSUES?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
List Issues:			
IS THE SITE READY TO BE SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
HAS THE SITE BEEN SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY DELAYS? (i.e. weather, equipment inoperability, etc.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Comments:			
WERE THEY ANY CHANGE ORDERS SIGNED BY THE PROPERTY OWNER?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WERE THERE ANY SIGNIFICANT DEVIATIONS FROM THE REMOVAL PLAN?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			
WAS THERE ANY PROPERTY DAMAGE DURING CONSTRUCTION ACTIVITIES? (Photo document and include any correction action taken)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			
WERE THERE ANY SAFETY AND HEALTH INFRACTIONS? (Include observances and any infractions of the Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective action taken.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			



**THIRD PARTY QUALITY ASSURANCE REPORT (QAR)****DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES**

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/29/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0023

Task Order: 0003

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 5.0

REPORT AUTHOR: Michael E. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		

**COMMENTS PERTAINING TO CONSTRUCTION ACTIVITIES**

Note Times With Each Comment

(Results of QC Inspections | Tests | Deficiencies Observed | Actions Taken | Corrective Actions Taken by the Contractor | Disagreements with Contractor | Verbal Instructions to Contractors (Include Personnel) | Directions from Government Personnel)

**0825** On site. M. Farnham (CDM Smith), TQA and R. Sonju (ER) conducted the restoration preparatory inspection. Grades stakes are placed. **0837** Off site. **1002** On site. R. Sonju stated that he requires one more load of three quarter crush to complete area A and the expansion. **1018** Off site. **1302** On site. Restoration is complete. Perimeter fence had been removed around area B and the asbestos tape has been removed around area A. All sample results in area A were None Detected. **1313** Off site.

WAS CONTAMINATED SOIL REMOVED FROM THE SITE?

☐ YES ☐ NO ☒ NA ~ Cubic Yards

WAS BACKFILL DELIVERED TO THE SITE?

COMMON FILL:

STRUCTURAL FILL: 40

☒ YES ☐ NO ☐ NA ~ Cubic Yards

TOP SOIL:

OTHER:

DELIVERABLES SUBMITTED TO PRI-ER?

☐ YES ☒ NO Comments:

PRINTED NAME

INSPECTOR'S SIGNATURE

DATE

Michael E. Farnham (CDM Smith)

4/29/2013

# **THIRD PARTY QUALITY ASSURANCE REPORT (QAR)** **DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES**

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/16/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
Weather AM:	40° F Sunny		
Weather PM:	45° F Sunny		

ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED TODAY	
Staging and Pre-Construction Set-Up		Exterior Clearance	N/A
Exterior Removal	N/A	Personal Air Monitoring	N/A
Expansion of Removal Area	N/A	Perimeter Air Monitoring	N/A
Exterior Clearance	N/A	Clean Room Sampling	N/A
Exterior Backfill	N/A		
Exterior Restoration	N/A		

**PREPARATORY INSPECTION** ☐ REMOVAL ☐ RESTORATION ☒ NA

Time: QC PERSON:

IS THE FINAL WORK PLAN ON SITE?

☒ YES ☐ NO ☐ NA Comments:

QC/TQA FINAL WORK PLAN REVIEW?

☐ YES ☒ NO ☐ NA Comments:

HAS U-DIG MARKED UTILITIES?

☒ YES ☐ NO ☐ NA Comments:

ARE FIRE EXTINGUISHERS ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE AHA ON SITE?

☐ YES ☐ NO ☐ NA Comments:

IS THE RAWP ON SITE?

☐ YES ☐ NO ☐ NA Comments:

IS THERE A CLEAN ROOM ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS POTABLE WATER FOR THE CLEAN ROOM ON SITE?

☐ YES ☐ NO ☐ NA Comments:

HAVE THE SITE HAZARDS BEEN IDENTIFIED? ☐ UG utility ☐ OH utility ☐ Septic ☐ Propane lines ☐ Tenants remaining on site

☐ Traffic ☐ Other:

DOES THE CONTAINMENT HAVE PROPER SIGNAGE?

☐ YES ☐ NO ☐ NA Comments:

HAVE REMOVAL/RESTO AREAS BEEN IDENTIFIED?

☐ YES ☐ NO ☐ NA Comments:

IS DUST CONTROL ON SITE?

☐ YES ☐ NO ☐ NA Comments:

IS TRAFFIC CONTROL REQUIRED?

☐ YES ☐ NO ☐ NA Comments:

WILL ENERGY SOURCES NEED TO BE LO/TO?

☐ YES ☐ NO ☐ NA Comments:



# THIRD PARTY QUALITY ASSURANCE REPORT (QAR)

## DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/16/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2		<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730			
PROPERTY ID:	AD-000686			
<b>QA INSPECTIONS</b> <input type="checkbox"/> Removal <input type="checkbox"/> Restoration				
CONSTRUCTION CREWS ON SITE? <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> Other:				
PERSONNEL ON SITE? QC: _____ Operators: 1 Laborers: 1 Other:				
EQUIPMENT ON SITE? List Equipment: 1 Case track hoes, skid steer				
REMOVAL/RESTO AREAS:				
DEPTH INCHES:				
IS PPE BEING USED CORRECTLY? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS TRAFFIC CONTROL IN PLACE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
WERE POINT INSPECTIONS CONDUCTED? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS ACM BEING PROPERLY HANDLED? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE AREAS BEING EXCAVATED TO INTENDED DEPTH? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS A 1:1 SLOPE BEING MAINTAINED OFF OF STRUCTURES? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS WATER BEING USED FOR DUST CONTROL? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE TOPS OF TRUCKS BEING SOAKED PRIOR TO TARPING? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE TRUCKS BEING WASHED PRIOR TO DEPARTING THE SITE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE PARKED TRUCKS USING CHOCKS? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS THERE VV IN THE SIDEWALLS? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
DOES VV MIGRATE OFF SITE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS THERE HIGH VV AT PLANNED DEPTH? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS ADDITIONAL REMOVAL REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS EXCAVATION REQUIRED IN ANY SECONDARY STRUCTURES? (Air clearance not required) <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR)

## DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/16/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
IS EXCAVATION REQUIRED IN ANY SECONDARY BUILDINGS? (Air clearance required)			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA BD-			
WAS EQUIPMENT DECONNED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
ARE GRADE STAKES BEING USED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
IS EROSION CONTROL BEING IMPLEMENTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WAS STRUCTURAL FILL COMPACTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
ARE THERE ANY ISSUES WITH THE BACKFILL?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE SIDEWALLS THAT CONTAIN VV COVERED WITH A POLY BARRIER?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
<b>FINAL INSPECTION</b>			
<input type="checkbox"/> Removal <input type="checkbox"/> Restoration <input checked="" type="checkbox"/> NA			
TIME:	QC PERSON:		
HAVE ALL AREAS BEEN REMOVED/RESTORED PER THE WORK PLANS?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
Comments:			
ARE THERE ANY OUTSTANDING ISSUES?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
List Issues:			
IS THE SITE READY TO BE SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
HAS THE SITE BEEN SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY DELAYS? (i.e. weather, equipment inoperability, etc.)			
<input type="checkbox"/> YES <input type="checkbox"/> NO Comments:			
WERE THEY ANY CHANGE ORDERS SIGNED BY THE PROPERTY OWNER?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY SIGNIFICANT DEVIATIONS FROM THE REMOVAL PLAN?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
Comments:			
WAS THERE ANY PROPERTY DAMAGE DURING CONSTRUCTION ACTIVITIES? (Photo document and include any correction action taken)			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
Comments:			
WERE THERE ANY SAFETY AND HEALTH INFRACTIONS? (Include observances and any infractions of the Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective action taken.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			



# THIRD PARTY QUALITY ASSURANCE REPORT (QAR)

## DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/16/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		

### COMMENTS PERTAINING TO CONSTRUCTION ACTIVITIES

Note Times With Each Comment

(Results of QC Inspections | Tests | Deficiencies Observed | Actions Taken | Corrective Actions Taken by the Contractor | Disagreements with Contractor | Verbal Instructions to Contractors (Include Personnel) | Directions from Government Personnel)

**1010** On Site. M. Farnham (CDM Smith). TQA observed the setup of the decon trailer during the staging process. J. Gray (PRI-ER) stated that he was unsure of the location of area A. **1028** S. Wilson (CDM Smith) arrived on site to point out the location of area A. TQA identified area B and consulted with J. Gray to ensure the delineated area is correct. **1055** Off site. **1425** On site. TQA observed structural fill being unloaded and spread for the access road. Staging appears to be approximately eighty percent complete. **1450** Off site.

WAS CONTAMINATED SOIL REMOVED FROM THE SITE?

☐ YES ☒ NO ☐ NA

WAS BACKFILL DELIVERED TO THE SITE?

COMMON FILL:

STRUCTURAL FILL: 40

☒ YES ☐ NO ☐ NA ~ Cubic Yards

TOP SOIL:

OTHER:

DELIVERABLES SUBMITTED TO PRI-ER?

☐ YES ☒ NO Comments:

PRINTED NAME

INSPECTOR'S SIGNATURE

DATE

Mike Farnham

4/16/2013

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/17/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
Weather AM:	23° F Sunny		
Weather PM:	45° F Sunny		

ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED TODAY	
Staging and Pre-Construction Set-Up	100	Exterior Clearance	1
Exterior Removal	45	Personal Air Monitoring	N/A
Expansion of Removal Area	N/A	Perimeter Air Monitoring	1
Exterior Clearance	15	Clean Room Sampling	1
Exterior Backfill	N/A		
Exterior Restoration	N/A		

**PREPARATORY INSPECTION** ☒ REMOVAL ☐ RESTORATION ☐ NA

Time: QC PERSON: Tina Moe

IS THE FINAL WORK PLAN ON SITE?  
☒ YES ☐ NO ☐ NA Comments:

QC/TQA FINAL WORK PLAN REVIEW?  
☒ YES ☐ NO ☐ NA Comments:

HAS U-DIG MARKED UTILITIES?  
☒ YES ☐ NO ☐ NA Comments:

ARE FIRE EXTINGUISHERS ON SITE?  
☒ YES ☐ NO ☐ NA Comments:

IS THE AHA ON SITE?  
☒ YES ☐ NO ☐ NA Comments:

IS THE RAWP ON SITE?  
☒ YES ☐ NO ☐ NA Comments:

IS THERE A CLEAN ROOM ON SITE?  
☒ YES ☐ NO ☐ NA Comments:

IS POTABLE WATER FOR THE CLEAN ROOM ON SITE?  
☒ YES ☐ NO ☐ NA Comments:

HAVE THE SITE HAZARDS BEEN IDENTIFIED? ☐ UG utility ☐ OH utility ☐ Septic ☐ Propane lines ☐ Tenants remaining on site  
☐ Traffic ☐ Other:

DOES THE CONTAINMENT HAVE PROPER SIGNAGE?  
☒ YES ☐ NO ☐ NA Comments:

HAVE REMOVAL/RESTO AREAS BEEN IDENTIFIED?  
☒ YES ☐ NO ☐ NA Comments:

IS DUST CONTROL ON SITE?  
☒ YES ☐ NO ☐ NA Comments:

IS TRAFFIC CONTROL REQUIRED?  
☐ YES ☒ NO ☐ NA Comments:

WILL ENERGY SOURCES NEED TO BE LO/TO?  
☐ YES ☐ NO ☒ NA Comments:



# THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/17/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2		<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730			
PROPERTY ID:	AD-000686			
<b>QA INSPECTIONS</b> <input checked="" type="checkbox"/> Removal <input type="checkbox"/> Restoration				
CONSTRUCTION CREWS ON SITE? <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> Other:				
PERSONNEL ON SITE? QC: <u>1</u> Operators: <u>1</u> Laborers: <u>2</u> Other:				
EQUIPMENT ON SITE? List Equipment: 1 Case track hoes, skid steer				
REMOVAL/RESTO AREAS: B				
DEPTH INCHES: 12				
IS PPE BEING USED CORRECTLY? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS TRAFFIC CONTROL IN PLACE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
WERE POINT INSPECTIONS CONDUCTED? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS ACM BEING PROPERLY HANDLED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE AREAS BEING EXCAVATED TO INTENDED DEPTH? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS A 1:1 SLOPE BEING MAINTAINED OFF OF STRUCTURES? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS WATER BEING USED FOR DUST CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE TOPS OF TRUCKS BEING SOAKED PRIOR TO TARPING? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE TRUCKS BEING WASHED PRIOR TO DEPARTING THE SITE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE PARKED TRUCKS USING CHOCKS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS THERE VV IN THE SIDEWALLS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
DOES VV MIGRATE OFF SITE? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS THERE HIGH VV AT PLANNED DEPTH? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS ADDITIONAL REMOVAL REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS EXCAVATION REQUIRED IN ANY SECONDARY STRUCTURES? (Air clearance not required) <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR)

## DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/17/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
IS EXCAVATION REQUIRED IN ANY SECONDARY BUILDINGS? (Air clearance required)			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA BD-			
WAS EQUIPMENT DECONNED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
ARE GRADE STAKES BEING USED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
IS EROSION CONTROL BEING IMPLEMENTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WAS STRUCTURAL FILL COMPACTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
ARE THERE ANY ISSUES WITH THE BACKFILL?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WERE SIDEWALLS THAT CONTAIN VV COVERED WITH A POLY BARRIER?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
<b>FINAL INSPECTION</b>			
<input type="checkbox"/> Removal <input type="checkbox"/> Restoration <input checked="" type="checkbox"/> NA			
TIME:	QC PERSON:		
HAVE ALL AREAS BEEN REMOVED/RESTORED PER THE WORK PLANS?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
Comments:			
ARE THERE ANY OUTSTANDING ISSUES?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
List Issues:			
IS THE SITE READY TO BE SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
HAS THE SITE BEEN SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY DELAYS? (i.e. weather, equipment inoperability, etc.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Comments:			
WERE THEY ANY CHANGE ORDERS SIGNED BY THE PROPERTY OWNER?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY SIGNIFICANT DEVIATIONS FROM THE REMOVAL PLAN?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			
WAS THERE ANY PROPERTY DAMAGE DURING CONSTRUCTION ACTIVITIES? (Photo document and include any correction action taken)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			
WERE THERE ANY SAFETY AND HEALTH INFRACTIONS? (Include observances and any infractions of the Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective action taken.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			



**THIRD PARTY QUALITY ASSURANCE REPORT (QAR)****DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES**

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/17/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		

**COMMENTS PERTAINING TO CONSTRUCTION ACTIVITIES**

Note Times With Each Comment

(Results of QC Inspections | Tests | Deficiencies Observed | Actions Taken | Corrective Actions Taken by the Contractor | Disagreements with Contractor | Verbal Instructions to Contractors (Include Personnel) | Directions from Government Personnel)

**0815** On Site. M. Farnham (CDM Smith). TQA set up clean room and perimeter monitoring. TQA also conducted a removal preparatory inspection with T. Moe and H. Fowler (PRI-ER). The removal area had been identified and confirmed by S. Wilson (CDM Smith) the previous day. G. Heller (PRI-ER) informed H. Fowler to place the debris from downed trees created during the staging process on the other side of the perimeter fencing. **0909** Excavation began. **1020** Off site. **1058** On site. E. Anderson (PRI-ER) and TQA observed vermiculite on the east side of area B outside the perimeter fencing of the excursion zone. The PRI-ER crew are excavating in the southeast corner of area B. At this point no VV has been observed at removal depth or in the sidewalls. **1207** Off site. **1311** On site. The removal crew continue to excavate area B. TQA donned the appropriate PPE and extracted one soil sample. TQA observed vermiculite in the removal zone in an area already excavated. TQA instructed the removal crew to excavate another six inches in a ten foot square area. B. Broekemeier (USACE) on site. TQA informed B. Broekemeier of vermiculite observed outside the excursion zone. B. Broekemeier informed TQA that a decision would be made by morning to expand the removal zone. **1530** Off site. TQA relinquished the soil sample to the CDM Smith Sample Coordinator. **1550** On site. TQA collected the clean room and perimeter air samples. **1617** Off site. TQA relinquished air samples to the CDM Smith Sample Coordinator.

WAS CONTAMINATED SOIL REMOVED FROM THE SITE?

☒ YES ☐ NO ☐ NA 280 cubic yards

WAS BACKFILL DELIVERED TO THE SITE?

COMMON FILL:

STRUCTURAL FILL:

☐ YES ☐ NO ☒ NA ~ Cubic Yards

TOP SOIL:

OTHER:

DELIVERABLES SUBMITTED TO PRI-ER?

☐ YES ☒ NO Comments:

PRINTED NAME

INSPECTOR'S SIGNATURE

DATE

Mike Farnham (CDM Smith)

4/17/2013

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/18/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
Weather AM:	23° F Sunny		
Weather PM:	45° F Sunny		

ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED TODAY	
Staging and Pre-Construction Set-Up	100	Exterior Clearance	3
Exterior Removal	45	Personal Air Monitoring	N/A
Expansion of Removal Area	30	Perimeter Air Monitoring	1
Exterior Clearance	40	Clean Room Sampling	N/A
Exterior Backfill	N/A		
Exterior Restoration	N/A		

PREPARATORY INSPECTION ☐ REMOVAL ☐ RESTORATION ☒ NA

Time: QC PERSON:

IS THE FINAL WORK PLAN ON SITE?

☒ YES ☐ NO ☐ NA Comments:

QC/TQA FINAL WORK PLAN REVIEW?

☒ YES ☐ NO ☐ NA Comments:

HAS U-DIG MARKED UTILITIES?

☒ YES ☐ NO ☐ NA Comments:

ARE FIRE EXTINGUISHERS ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE AHA ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE RAWP ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THERE A CLEAN ROOM ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS POTABLE WATER FOR THE CLEAN ROOM ON SITE?

☒ YES ☐ NO ☐ NA Comments:

HAVE THE SITE HAZARDS BEEN IDENTIFIED? ☐ UG utility ☐ OH utility ☐ Septic ☐ Propane lines ☐ Tenants remaining on site  
☐ Traffic ☐ Other:

DOES THE CONTAINMENT HAVE PROPER SIGNAGE?

☒ YES ☐ NO ☐ NA Comments:

HAVE REMOVAL/RESTO AREAS BEEN IDENTIFIED?

☒ YES ☐ NO ☐ NA Comments:

IS DUST CONTROL ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS TRAFFIC CONTROL REQUIRED?

☐ YES ☒ NO ☐ NA Comments:

WILL ENERGY SOURCES NEED TO BE LO/TO?

☐ YES ☐ NO ☒ NA Comments:



# THIRD PARTY QUALITY ASSURANCE REPORT (QAR)

## DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/18/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
<b>QA INSPECTIONS</b> <input checked="" type="checkbox"/> Removal <input type="checkbox"/> Restoration			
CONSTRUCTION CREWS ON SITE? <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> Other:			
PERSONNEL ON SITE? QC: <u>1</u> Operators: <u>1</u> Laborers: <u>2</u> Other: 2 - Staging crew			
EQUIPMENT ON SITE? List Equipment: 1 Case track hoes, skid steer			
REMOVAL/RESTO AREAS:	B, expanded area		
DEPTH INCHES:	12-Jun		
IS PPE BEING USED CORRECTLY? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
IS TRAFFIC CONTROL IN PLACE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WERE POINT INSPECTIONS CONDUCTED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments: Expanded removal area B by approximately 7200 ft <sup>2</sup> and A by 150 ft <sup>2</sup>			
IS ACM BEING PROPERLY HANDLED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
ARE AREAS BEING EXCAVATED TO INTENDED DEPTH? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
IS A 1:1 SLOPE BEING MAINTAINED OFF OF STRUCTURES? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
IS WATER BEING USED FOR DUST CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
ARE TOPS OF TRUCKS BEING SOAKED PRIOR TO TARPING? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
ARE TRUCKS BEING WASHED PRIOR TO DEPARTING THE SITE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
ARE PARKED TRUCKS USING CHOCKS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
IS THERE VV IN THE SIDEWALLS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
DOES VV MIGRATE OFF SITE? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
IS THERE HIGH VV AT PLANNED DEPTH? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
IS ADDITIONAL REMOVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments: in area A Point inspections indicated approximately 7200 ft <sup>2</sup> in area B and 150 ft <sup>2</sup>			
IS EXCAVATION REQUIRED IN ANY SECONDARY STRUCTURES? (Air clearance not required) <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/18/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
IS EXCAVATION REQUIRED IN ANY SECONDARY BUILDINGS? (Air clearance required)			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA BD-			
WAS EQUIPMENT DECONNED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
ARE GRADE STAKES BEING USED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
IS EROSION CONTROL BEING IMPLEMENTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WAS STRUCTURAL FILL COMPACTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
ARE THERE ANY ISSUES WITH THE BACKFILL?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WERE SIDEWALLS THAT CONTAIN VV COVERED WITH A POLY BARRIER?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
<b>FINAL INSPECTION</b>			
<input type="checkbox"/> Removal <input type="checkbox"/> Restoration <input checked="" type="checkbox"/> NA			
TIME:	QC PERSON:		
HAVE ALL AREAS BEEN REMOVED/RESTORED PER THE WORK PLANS?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
Comments:			
ARE THERE ANY OUTSTANDING ISSUES?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
List Issues:			
IS THE SITE READY TO BE SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
HAS THE SITE BEEN SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY DELAYS? (i.e. weather, equipment inoperability, etc.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Comments:			
WERE THERE ANY CHANGE ORDERS SIGNED BY THE PROPERTY OWNER?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY SIGNIFICANT DEVIATIONS FROM THE REMOVAL PLAN?			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Comments: 7200 square feet added to the removal area B			
WAS THERE ANY PROPERTY DAMAGE DURING CONSTRUCTION ACTIVITIES? (Photo document and include any correction action taken)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			
WERE THERE ANY SAFETY AND HEALTH INFRACTIONS? (Include observances and any infractions of the Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective action taken.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			



**THIRD PARTY QUALITY ASSURANCE REPORT (QAR)****DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES**

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/18/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP-Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		

**COMMENTS PERTAINING TO CONSTRUCTION ACTIVITIES**

Note Times With Each Comment

(Results of QC Inspections | Tests | Deficiencies Observed | Actions Taken | Corrective Actions Taken by the Contractor | Disagreements with Contractor | Verbal Instructions to Contractors (Include Personnel) | Directions from Government Personnel)

0715 B. Broekemeier (USACE) instructed TQA to expand the removal area to include the vermiculite that was observed the previous day, then let him know the square footage of the expansion. 0750 On Site. M. Farnham (CDM Smith). TQA prepared the perimeter air monitoring and set it up. D. Repine (CDM Smith) contacted TQA and instructed him to conduct normal point inspections then contact B. Broekemeier with the total square footage that was added. TQA conducted point inspections with the help of E. Anderson (PRI-ER) then delineated the area where vermiculite was observed. The total expansion of the removal area came out to approximately 7200 ft<sup>2</sup> the majority of it connecting to and north of area B. The staging crew arrived and began to stage the expansion area. TQA donned the appropriate PPE and extracted three soil samples. 1223 Off site. TQA relinquished the soil samples to the CDM Smith Sample Coordinator. 1251 On site. The removal crew is approximately seventy five percent complete with area B. M. Forkel (CDM Smith) informed TQA that D. Repine instructed to keep the removal to six inch increments below grade when they begin in expansion area. If vermiculite is observed then excavate another six inches until no visible remains. The removal crew moved to begin excavation in the expanded area leaving about twenty five percent of area B to complete at the end. TQA conducted point inspections around area A and observed vermiculite and tremolite. TQA photo documented the tremolite which extended outside area A. TQA estimates expanding area A by one hundred fifty square feet. TQA gathered the air monitoring equipment and readied sample for the CDM Smith Sample Coordinator. 1535 Off site. 1600 TQA informed B. Broekemeier of the progress and the expansion of area A.

WAS CONTAMINATED SOIL REMOVED FROM THE SITE?

☒ YES ☐ NO ☐ NA 280 cubic yards

WAS BACKFILL DELIVERED TO THE SITE?

☐ YES ☐ NO ☒ NA ~ Cubic Yards

COMMON FILL:

TOP SOIL:

STRUCTURAL FILL:

OTHER:

DELIVERABLES SUBMITTED TO PRI-ER?

☐ YES ☒ NO Comments:

PRINTED NAME

Mike Farnham (CDM Smith)

INSPECTOR'S SIGNATURE

DATE

4/18/2013

# **THIRD PARTY QUALITY ASSURANCE REPORT (QAR)** **DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES**

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/19/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
Weather AM:	44° F Raining		
Weather PM:	55° F Sunny		

ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED TODAY	
Staging and Pre-Construction Set-Up	100	Exterior Clearance	4
Exterior Removal	85	Personal Air Monitoring	N/A
Expansion of Removal Area	95	Perimeter Air Monitoring	1
Exterior Clearance	80	Clean Room Sampling	N/A
Exterior Backfill	N/A		
Exterior Restoration	N/A		

**PREPARATORY INSPECTION** ☐ REMOVAL ☐ RESTORATION ☒ NA

Time: QC PERSON:

IS THE FINAL WORK PLAN ON SITE?

☒ YES ☐ NO ☐ NA Comments:

QC/TQA FINAL WORK PLAN REVIEW?

☒ YES ☐ NO ☐ NA Comments:

HAS U-DIG MARKED UTILITIES?

☒ YES ☐ NO ☐ NA Comments:

ARE FIRE EXTINGUISHERS ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE AHA ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE RAWP ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THERE A CLEAN ROOM ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS POTABLE WATER FOR THE CLEAN ROOM ON SITE?

☒ YES ☐ NO ☐ NA Comments:

HAVE THE SITE HAZARDS BEEN IDENTIFIED?

☐ UG utility ☐ OH utility ☐ Septic ☐ Propane lines ☐ Tenants remaining on site

☐ Traffic ☐ Other:

DOES THE CONTAINMENT HAVE PROPER SIGNAGE?

☒ YES ☐ NO ☐ NA Comments:

HAVE REMOVAL/RESTO AREAS BEEN IDENTIFIED?

☒ YES ☐ NO ☐ NA Comments:

IS DUST CONTROL ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS TRAFFIC CONTROL REQUIRED?

☐ YES ☒ NO ☐ NA Comments:

WILL ENERGY SOURCES NEED TO BE LO/TO?

☐ YES ☐ NO ☒ NA Comments:



# THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/19/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2		<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730			
PROPERTY ID:	AD-000686			
<b>QA INSPECTIONS</b> <input checked="" type="checkbox"/> Removal <input type="checkbox"/> Restoration				
CONSTRUCTION CREWS ON SITE? <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> Other:				
PERSONNEL ON SITE? QC: <u>1</u> Operators: <u>1</u> Laborers: <u>2</u> Other:				
EQUIPMENT ON SITE? List Equipment: 1 Case track hoe, 4 trucks				
REMOVAL/RESTO AREAS: B, expanded area				
DEPTH INCHES: 6-Jan				
IS PPE BEING USED CORRECTLY? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS TRAFFIC CONTROL IN PLACE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
WERE POINT INSPECTIONS CONDUCTED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS ACM BEING PROPERLY HANDLED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE AREAS BEING EXCAVATED TO INTENDED DEPTH? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS A 1:1 SLOPE BEING MAINTAINED OFF OF STRUCTURES? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS WATER BEING USED FOR DUST CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE TOPS OF TRUCKS BEING SOAKED PRIOR TO TARPING? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE TRUCKS BEING WASHED PRIOR TO DEPARTING THE SITE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE PARKED TRUCKS USING CHOCKS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS THERE VV IN THE SIDEWALLS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
DOES VV MIGRATE OFF SITE? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS THERE HIGH VV AT PLANNED DEPTH? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS ADDITIONAL REMOVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS EXCAVATION REQUIRED IN ANY SECONDARY STRUCTURES? (Air clearance not required) <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/19/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
IS EXCAVATION REQUIRED IN ANY SECONDARY BUILDINGS? (Air clearance required)			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA BD-			
WAS EQUIPMENT DECONNED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
ARE GRADE STAKES BEING USED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
IS EROSION CONTROL BEING IMPLEMENTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WAS STRUCTURAL FILL COMPACTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
ARE THERE ANY ISSUES WITH THE BACKFILL?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WERE SIDEWALLS THAT CONTAIN VV COVERED WITH A POLY BARRIER?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
<b>FINAL INSPECTION</b>			
		<input type="checkbox"/> Removal	<input type="checkbox"/> Restoration
		<input checked="" type="checkbox"/> NA	
TIME:	QC PERSON:		
HAVE ALL AREAS BEEN REMOVED/RESTORED PER THE WORK PLANS?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
Comments:			
ARE THERE ANY OUTSTANDING ISSUES?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
List Issues:			
IS THE SITE READY TO BE SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
HAS THE SITE BEEN SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY DELAYS? (i.e. weather, equipment inoperability, etc.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Comments:			
WERE THEY ANY CHANGE ORDERS SIGNED BY THE PROPERTY OWNER?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY SIGNIFICANT DEVIATIONS FROM THE REMOVAL PLAN?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			
WAS THERE ANY PROPERTY DAMAGE DURING CONSTRUCTION ACTIVITIES? (Photo document and include any correction action taken)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			
WERE THERE ANY SAFETY AND HEALTH INFRACTIONS? (Include observances and any infractions of the Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective action taken.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			



**THIRD PARTY QUALITY ASSURANCE REPORT (QAR)****DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES**

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/19/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		

**COMMENTS PERTAINING TO CONSTRUCTION ACTIVITIES**

Note Times With Each Comment

(Results of QC Inspections | Tests | Deficiencies Observed | Actions Taken | Corrective Actions Taken by the Contractor | Disagreements with Contractor | Verbal Instructions to Contractors (Include Personnel) | Directions from Government Personnel)

**0804** On Site. M. Farnham (CDM Smith). The removal crew are excavating the expanded area north of area B. TQA donned the appropriate PPE and collected one soil sample. TQA observed vermiculite in the expanded area and instructed the removal crew to excavate another six inches in about a two hundred fifty square foot area. There are four trucks on the job today, down two from the previous two days. **1010** Off site. **1050** On site. The removal crew continue to excavate the expanded area. **1120** Off site. **1202** On site. TQA extracted three soil samples. **1311** Off site. **1445** On site. The removal crew are finishing the expanded area and will move to complete area B. TQA collected the perimeter air sample. **1553** Off site.

WAS CONTAMINATED SOIL REMOVED FROM THE SITE?

☒ YES ☐ NO ☐ NA

300 cubic yards

WAS BACKFILL DELIVERED TO THE SITE?

☐ YES ☐ NO ☒ NA

~ Cubic Yards

COMMON FILL:

TOP SOIL:

STRUCTURAL FILL:

OTHER:

DELIVERABLES SUBMITTED TO PRI-ER?

☐ YES ☒ NO

Comments:

PRINTED NAME

Mike Farnham (CDM Smith)

INSPECTOR'S SIGNATURE

DATE

4/19/2013

**THIRD PARTY QUALITY ASSURANCE REPORT (QAR)****DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES**

PROJECT: Libby Asbestos Site, Libby, MT

REPORT DATE: 4/22/2013

THIRD PARTY INDEPENDENT CONTRACTOR: CDM Federal Programs Corp.

REMOVAL CONTRACTOR: PRI-ER JV

CONTRACT NUMBER: W9128F-11-D-0024

Task Order: 0002

GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 4.0

REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2	<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730		
PROPERTY ID:	AD-000686		
Weather AM:	28° F Sunny		
Weather PM:	45° F Sunny		

ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED TODAY	
Staging and Pre-Construction Set-Up	100	Exterior Clearance	6
Exterior Removal	100	Personal Air Monitoring	N/A
Expansion of Removal Area	100	Perimeter Air Monitoring	N/A
Exterior Clearance	100	Clean Room Sampling	N/A
Exterior Backfill	N/A		
Exterior Restoration	N/A		

**PREPARATORY INSPECTION** ☐ REMOVAL ☐ RESTORATION ☒ NA

Time: QC PERSON:

IS THE FINAL WORK PLAN ON SITE?

☒ YES ☐ NO ☐ NA Comments:

QC/TQA FINAL WORK PLAN REVIEW?

☒ YES ☐ NO ☐ NA Comments:

HAS U-DIG MARKED UTILITIES?

☒ YES ☐ NO ☐ NA Comments:

ARE FIRE EXTINGUISHERS ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE AHA ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THE RAWP ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS THERE A CLEAN ROOM ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS POTABLE WATER FOR THE CLEAN ROOM ON SITE?

☒ YES ☐ NO ☐ NA Comments:

HAVE THE SITE HAZARDS BEEN IDENTIFIED?

☐ UG utility ☐ OH utility ☐ Septic ☐ Propane lines ☐ Tenants remaining on site  
☐ Traffic ☐ Other:

DOES THE CONTAINMENT HAVE PROPER SIGNAGE?

☒ YES ☐ NO ☐ NA Comments:

HAVE REMOVAL/RESTO AREAS BEEN IDENTIFIED?

☒ YES ☐ NO ☐ NA Comments:

IS DUST CONTROL ON SITE?

☒ YES ☐ NO ☐ NA Comments:

IS TRAFFIC CONTROL REQUIRED?

☐ YES ☒ NO ☐ NA Comments:

WILL ENERGY SOURCES NEED TO BE LO/TO?

☐ YES ☐ NO ☒ NA Comments:



# THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

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REPORT AUTHOR: M. Farnham (CDM Smith)

PROPERTY ADDRESS:	875 US Highway 2		<input checked="" type="checkbox"/> Libby, MT 59923	<input type="checkbox"/> Troy, MT 59935
GEOUNIT:	5730			
PROPERTY ID:	AD-000686			
<b>QA INSPECTIONS</b> <input checked="" type="checkbox"/> Removal <input type="checkbox"/> Restoration				
CONSTRUCTION CREWS ON SITE? <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> Other:				
PERSONNEL ON SITE? QC: <u>1</u> Operators: <u>1</u> Laborers: <u>2</u> Other:				
EQUIPMENT ON SITE? List Equipment: 1 Case track hoe, 4 trucks				
REMOVAL/RESTO AREAS: A, expanded area				
DEPTH INCHES: 12-Jan				
IS PPE BEING USED CORRECTLY? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS TRAFFIC CONTROL IN PLACE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
WERE POINT INSPECTIONS CONDUCTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS ACM BEING PROPERLY HANDLED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE AREAS BEING EXCAVATED TO INTENDED DEPTH? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS A 1:1 SLOPE BEING MAINTAINED OFF OF STRUCTURES? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				
IS WATER BEING USED FOR DUST CONTROL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE TOPS OF TRUCKS BEING SOAKED PRIOR TO TARPING? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE TRUCKS BEING WASHED PRIOR TO DEPARTING THE SITE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
ARE PARKED TRUCKS USING CHOCKS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS THERE VV IN THE SIDEWALLS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments: North sidewall contains vermiculite and tremolite. Covered with poly.				
DOES VV MIGRATE OFF SITE? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS THERE HIGH VV AT PLANNED DEPTH? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS ADDITIONAL REMOVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:				
IS EXCAVATION REQUIRED IN ANY SECONDARY STRUCTURES? (Air clearance not required) <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:				

# THIRD PARTY QUALITY ASSURANCE REPORT (QAR)

## DAILY LOG OF EXTERIOR CONSTRUCTION ACTIVITIES

PROJECT: Libby Asbestos Site, Libby, MT

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IS EXCAVATION REQUIRED IN ANY SECONDARY BUILDINGS? (Air clearance required)			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA BD-			
WAS EQUIPMENT DECONNED?			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
ARE GRADE STAKES BEING USED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
IS EROSION CONTROL BEING IMPLEMENTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WAS STRUCTURAL FILL COMPACTED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
ARE THERE ANY ISSUES WITH THE BACKFILL?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA Comments:			
WERE SIDEWALLS THAT CONTAIN VV COVERED WITH A POLY BARRIER?			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
FINAL INSPECTION			
<input type="checkbox"/> Removal <input type="checkbox"/> Restoration <input checked="" type="checkbox"/> NA			
TIME: QC PERSON:			
HAVE ALL AREAS BEEN REMOVED/RESTORED PER THE WORK PLANS?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
Comments:			
ARE THERE ANY OUTSTANDING ISSUES?			
<input type="checkbox"/> YES <input type="checkbox"/> NO			
List Issues:			
IS THE SITE READY TO BE SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
HAS THE SITE BEEN SEEDED?			
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY DELAYS? (i.e. weather, equipment inoperability, etc.)			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Comments:			
WERE THEY ANY CHANGE ORDERS SIGNED BY THE PROPERTY OWNER?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA Comments:			
WERE THERE ANY SIGNIFICANT DEVIATIONS FROM THE REMOVAL PLAN?			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			
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<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Comments:			



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PROPERTY ID:	AD-000686		

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**0752** On Site. M. Farnham (CDM Smith). The removal crew has two truck loads to complete in area B before they decon and move to area A. TQA informed H. Fowler (PRI-ER) that area A has been expanded by about one hundred fifty square feet. **0810** Off site. **0911** On site. TQA marked out the expansion in area A and contacted J. Gray (PRI-ER) to inform him. J. Gray stated that he is laying down some structural fill over an area which sampled trace to access area A. The removal crew are de-conning the equipment. TQA extracted five soil samples to complete area B and the expanded area around B. TQA observed vermiculite in all but one of the sample zones. Poor weather the previous Friday made it difficult to locate the vermiculite. **1200** Off site. **1250** On site. TQA informed H. Fowler that vermiculite was observed in area B when soil sampling. TQA observed tremolite during excavation of area A and contacted D. Repine (CDM Smith) to receive confirmation on not chasing it under the large mound of dirt. **1450** Excavation of area A finished. **1502** TQA extracted one soil sample. The equipment was de-conned and moved out of the excursion zone. The removal crew installed a poly barrier using staples to secure it to the north sidewall. Area was secured. **1550** Off site. TQA contacted H. Fowler and it was decided to wait for the sample results of area A before restoring it due to the amount of tremolite that was extracted.

**WAS CONTAMINATED SOIL REMOVED FROM THE SITE?**☒ YES ☐ NO ☐ NA 50 cubic yards**WAS BACKFILL DELIVERED TO THE SITE?**☒ YES ☐ NO ☐ NA ~ Cubic Yards**COMMON FILL:**

TOP SOIL:

STRUCTURAL FILL: 30

OTHER:

**DELIVERABLES SUBMITTED TO PRI-ER?**☐ YES ☒ NO Comments:**PRINTED NAME**

Mike Farnham (CDM Smith)

**INSPECTOR'S SIGNATURE****DATE**

4/22/2013